Kendrapara Canal and its Branch to Gundakia on the Gobri River.

LENGTH OF CANAL OPEN - 69 MILES.

LOCAL TRAFFIC.

(1)-PRIVATE.

		Arrao	NIMATE .	TONNAGE	OF BOATS.			Rate of
Nature of curyo.		Weight of curyo.	Value of cargo.	Maunds.	Tons.	Ton- mileage.	Tollage.	toll per ton-mile
		Mds.	Rn.	-			Ru. A. P.	A. P
Bmpty boats	***	20	100	918 83	33	788 78	10 10 B	11114
3 Total	110	20	= 100	. 969	85	844	12 2 5	0 2
Total of same month last year	1001	50	250	1,015	37	439	13 11 0	0 6
MISCELLANEOUS.				Nil.	7			
Total	4.04		iim		21 111	201411	nini	
Total of same month last year	941	NAMES	100.00	#*****	*****			*****
(2)—STORES		Mdn.	Rs.		4		Ra. A. P.	A. 1
		Mdn.	Rs.		*	-	Ra, A. P.	A. E
Total				Nil.	-			
Total of same month last year	981	155VEE	******	Aveau	121981	42.5178	2004	1000
and the second s	-11							
MISCELLANEOUS.				Nil.		11.1		
Total	***	20000	29,58	1000	west .			******
Total of same month last year	10.1		0.004	******	. het sye	rices	******	*****
		ARS	TRACT.					
		Mds.	Rs.	1			Rs. A. P.	Page 1
Private, including miscellaneous Government stores, including miscellan	oritin.	20	100	989	35	844	12 2 5	*****
Grand Total	341	20	100	989	85	814	12 8 6	
3 Grand Total of same month last year	444	50	250	1,015	37	439	18-41 0	
Unrecovered bulance on the 1st Amount of toilage for the mor			IRMO.	***	Total	11,0	Cs. A. P. 080 8 10 12 2 5	
Amount credited in the account refunded in February	ts for	the month darch 1883, 1	out was not	shown in retu	2,293 arm 18	0 0 0 0		
						2,5	311 6 9	
Balance at the o	nd of	the month	***		ris.	0,	81 4 0	

Note .- The canal was closed for repairs .

High Level Canal, Range I.

LENGTH OF CANAL OPEN-34 MILES.

LOCAL TRAFFIC.

(1)-PRIVATE.

1	Empty boats		Mds.	Ra,	25 25	1	. 1	Rs, A. P.	A. P.
-		441			-		-		surves.
9	Total	391	10	10	50	8	5	0 4 0	0 11.0
	Total of same month last year	244	******		parais :	******		Thism.	(seems
	Miscellaneous.		120-1-11					orani di	
				arrishe.	422.033	Nil.	todat	estina.	*****
224	Total	***	jungi	*****		. deline	Acres	access.	
***	Total of same month last year	***	191.01	and.	*88.114	XXX-11-	SPATE .		114481-

High Level Canal, Range I-concluded.

3		Аррвоз	TMATE	TONNAGE	P BOATS,	Ton-		Rate of
Number boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Maunds.	Tons.	mileage.	Tollage.	toli per ton-mile.

(2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

			Mds.	Re.		Nil.		Rs. A. P.	A. P.
Tell I	Total	225	11(11)	*****		Market .	ARRIVE	- ARRES	*****
	Total of same month last year MISCELLANEOUS.	***	Arrest	kanaan	Military	******		1117131	787415
						Nil.			
111	Total	***	*****	*****	*****	120100	*****	*****	200704
111	Total of same month last year	701	316444	100000	*****	310141		3+1+41	200.405

ABSTRACT.

AL HA		1	Mds.	lts.				Rs. A. F.	
. 2	Private, including miscellaneous Government stores, including miscellaneou	18	10	10	50	0	Ď.	0 4 0	******
9	Grand Total	17.5	10	10	.50	9	5	0 4 9	1111M
144	Grand Total of same mouth just year	***	*****		ATTURE		38(37)	*****	represe.

				-										
		ME	Mo.									Rs.	A.	P.
	overed balance on the lat of &	he month	218	XXX	3.95	5.50	***	771				668	6	I
	nt of toliage for the month	331 168	8.65	***	100 K	***	NEX	444				U	- 6	9
						2	Potal	***	Rs.	A.	P.	668	10	10
Amoun	Tollage erroneously charge	r the month) are	Torr.	171	Tales	Des Contract	a in	888	8	3			
	March, and part of A	pril 1853	141	201011		* 6172	***	-111	776	2	3	1,364	10	6
	Balance at the e	end of the r	nouth	(def	leit)	2.6.4	241	111				600	15	8

NOTE.-The canal was closed for repairs.

High Level Canal, Range II.

LENGTH OF CANAL OPEN-121 MILES.

LOCAL TRAFFIC.

(1)-PRIVATE.

			Mds.	Rs.		- 1		Rs. A. P.	A. P.
7	Nil.		-			Nil.			
111	Total	***	19914	3,62,682	100.074	,,,,,,	110164	20000	5)2225
7	Total of same month last year	18.87	500	2,500	1,621	58	480	16 4 0	0 7:2
	MISCRLLANHQUE.	-	Live year		1				
	Small dongaha (10 in number)	-10	A	*****	10+414	21,7361	22224X	5 6 G	most "
	Total		34494	Peries -	781 141	Edd FEE	125124	5 6 6	107.101
100	Total of some monta last year		C -110015	250	****	ATTENDED.	******	8 5 9	TEATES.

(2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

1 31 2 23 1	Empry boats	A4 74 44 177	Mds. 150 200 8,000 500	Rs. 10	291 7,029 401 14,689 669	8 251 17 525 20	90 3,012 204 6,5mi 240	Rs. A. P. 2 12 0 43 5 0 6 2 0 182 10 0 7 0 0	A. P.
60	Total		8,650	190	22,000	841	9,816	241 13 0	0 47
78	Total of same mouth last year		8,200	230	28,465	637	10,044	208 4 6	0 4/5
133	MIRCHELANBOOS	10			12.1.4		7		
	Nil.	440	100000	Service of	Mary Inc.	Nil.		THE STREET	
141	Total		201.00	221224	- smier -	040.653	491419	. treat	T 40.000
111	Total of same mouth last year	. 10		Circles City	inten	poset	Sedant .	******	*****

High Level Canal, Range II-concluded.

0.0			APPROX	IMATE	TONNAGE Q	BOATS.	Ton-	W-11-11	Rate of	
boats.		Nature of cargo.	Weight of cargo.	Value of cargo.	Maunds.	Tons.	mileage.	Tollage.	toil por ton-mile.	
		124	À1	STRACT.				777		
	1		Mds.	Ra.	1			Ra. A. P.	or other disk	
***	Prive	ate, including miscellaneous	8,650	190	22,990	821	9,646	5 6 6 241 13 0	600001 AAA 001	
60	Gove	Grand Total	8,030	100	90,000	521	0,846	947 8 6	*****	
80	Grat	nd Total of same month last year	8,700	3,000	25,086	805	10,474	257 14 3		
				IEMO.		1		Rn. A. F.		
	*	Unrecovered balance on the 1st of th Amount of tollage for the month	e month	500 500 500 500	*** ***	041 100	107 101	247 8 6		
						Rs.	Total	855 12 9		
	,	Amount credited in the accounts for Toliage charged to steamer from Jan	the month	1 1883 writte	n back ***	110	8 3 13 6	443 5 9		
		Balance at the e	nd of the me	orth		996 '127	***	412 7 0		

High Level Canal, Range III.

LENGTH OF CANAL OPEN-20 MILES.

LOCAL TRAFFIC.

(1)-PRIVATE.

1		1	Mds.	Rs.			-	Ra. A. P.	A. P.
	Nil.		*****	nnie	147 672 2	main	unar.	*****	277113
	Total	202	1010	146.154	*****	*****		2-4754	- Sekeri
1.15	Total of same mouth last year	***	airei.	*****	*******	xx+x+k	******	*****	A19.111
	MISCELLANEOUS.							Tares	
AAL	Nil.		ANIANT:	411114	762211	255.284	171-01-		Virines
	Total	***	241141	verett	184 174		240007	serrer	*****
xxx xxx	Total of same month last year	***	**************************************	21/20	*****	2 845 33	*****	0 6 0	rinne

. (2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

1		Mas.	Rs.		don't		Rs. A. P.	A. P.
1	Nil.							
	Total	I A STATE	******	414 41	+++++	-x0m	in in	min.
2	Total of same month sast year	9,000	330	16,676	593	8,965	193 7 0	0 "0.
	MISCELLANROUS.	42.			5-3			
1	Nil	AVATES	*****	ere ser	94444	. Mon .	serve)	******
-	Total	ANDERS	477-17	men.	777777	30144	#####/	*****
	Total of same month last year	sterat	247467	*****		468.000	, strein	*****

		Mds.	Rs.		TUTE	LO COL	Ks. A. P.	A. P.
pri	Private, including miscellaneous	arman	******	*****	*****	Asset	AMERICA	377,000
	Government stores, including miscella- neous	anagi.	, reserv	andres.	Atting	es bass	1	
- Cri	Grand Total	gabras.	£1332	*****	271111	2 10 10	100.00	*****
-33	Grand Total of same month last year	0,000	880	16,676	698	3,905	198 13 0	200 200

High Level Canal, Range III-concluded.

Мимо.							Re.	A.	P.
Unrecovered balance on the let of the month	141	405	150		561		363	11	8
Amount of tollage for the month	909	***	3.00		-008		901	0000	
			Total			86	363	11	8
				Ra.	A	P.			
Amount credited in the accounts for the month Tollage erroneously charged to ateamer written back	10.0	**	***	242	8	0			
Actually stranger of the stranger stran		***	-	_	_	_	553	8	9
Ralance at the end of the moute	(deficit)	200	***				189	12	-6

Note.-The canal was closed for repairs.

SOUTH-WESTERN CIRCLE.

Midnapore Canal.

LENGTH OF CANAL OPEN-53 MILES.

70		APPROX	TONNAGEO	BOATS.			Rate of	
Number boats.	Nature of cargo.	Weight of	Value of cargo.	Maunds.	Tona.	Ton- mileage.	Tollage.	toll per ton-mile.

LOCAL TRAFFIC.

(1)-PRIVATE.

-			-		-		-		1			-		_	_	
1	CT CAT						- 1	Mds.	Ra.		1		Ra.		P.	A. F.
	Conl	***	***	***		***	201	7,470	1,740	12,975	******		68		6	A, F.
	Coke	500	-900	***	***	***	***	6,760	8,000	14,025	******	******	173		0	105104
	Ghooting	Ann 1-	. 24.		***	***	445	1,230	110	2,200	WHATOR	*****		13	0	*****
	Bricks (3,		num	ber)	***	***	REC	150	30	376	*****	*****	1	6	6	*****
	Earthenw Sand		124	199	***	***	***	2,145 12,450	550	5,075	*****	400000	28	8	8	1001300
	Lime	444	***	***	***	***	***	150	1,852	23,450	*****	*****	94	5	0	******
	Timber (S	ni en	numb	orl	***	***	***	2,677	4,491	3,630	*****	755545		14	0	******
14	Firewood	440	***	***	***	***		1,550	578	3,490	******	101141	27	5	6	******
2	Iron	***	100	***	200	***	***	400	2,400	850		Attract		13	0	400mm
35	Brass	***	***	***	*44	***	***	7.845	8,92,250	15,225		******	133	3	6	2111440
	Copper	444	***	***	***	***		4,674	1,00,450	12,800	******	*****	112	0	0	******
	Bilk	244	247	991	344	***	***	260	42,800	1,425	*****	******	12	7	6:	207.00
- 5	Cotton	***	- A - F	Daniel	***	***	***	800	14,025	2,200	*****	*****		10	0	*****
33	Cotton pi						***	1,300	1,30,000	3,425	*****	200,000	32	8	0	SARRES-
7	Jute	***	***	***	244.	* 62	***	1,355 285	3,765	2,750		******		11	3	
96	Paddy	117	***	***	***	***	***	14,015	10,897	25,840	507440	*****	18	8 2	9	******
640	Rice	***	***		***	124	***	1,28,167	1,93,893	2,39,500	209	*****	2,978	G	6	******
6	Wheat	***	***	465	***	104	***	625	2,500	1,345	******	Kenzak	2,075	6	9	100 005
116	Gram	241	***	***	804	888	***	21,085	50.335	44,000	******	*****	453	4	9	*******
28	Linseed	225	200	***	***	***	***	9,160	27,055	18,475	******	*****	224	2	6	******
31	Mustard-	bood	***	***	49.0	***	***	6,480	21,550	12,355	******	******	97	5	9	700.00
1	Til	****	***	***	931	617	***	300	1,290	675	******	*****		14	0	*****
8	Other oil		***	***	***	***	23.0	1,150	6,750	2,375	*****	241144	20	12	6	901 124
3	Indigo see		200	***	***	***	***	600	5,600	1,225	, KR4194	*****		12	0	.100.00
10	Mustard-		000	***	386	***	.001	8,025 2,525	14,975 8,599	7,670 4,700	PERCEN	34:165		1.5	3	104104
10	Oil-cake		***	000	***	***	4++	2,310	2,318	5.135	3455.55	XPERES.		13	0	200.000
203	Fruits	***	254	***	544	241	***	28,595	87,594	51,255	248164	*****	45 357	8	0	644 555
50	Tobacco	100	144	444	***	***	200	8,000	46,925	17,935	211705	Lieves	218	1	8	10-101
2	Bpices	***	441	144		411		150	750	430	******	******	6	18	0	204 x48
9	Cocomut	0 (4.00	o in.	number)	***	841	150	80	800	V44744	******	9	0	ő	10000
24	Straw (50	5 kmh	una)	***	448	***	***	6,450	1,578	14,500	33334	717717	78	14	0	901 100 100 000
8	Beteinute			444	961	-1834		200	1,500	425	510.00	******	1	9	6	******
27	Sugar, an	refine	d in		907	***	4.57	3,840	13,445	8,585	*****	******	. 54	9	0	20.041
149	Bult	244	171	200	***	***	***	47,270	1,34,535	1,00,815	******	200050	1,136	10	0	227700
2	Hides (8,				114	464		450	6,000	950	BETTER	shirery.	14	4	0	*******
1,114	Horns Empty be	NAME OF THE OWNER OWNER OF THE OWNER	685	***	***	288	64.4	800	1,200	1,09,080		*****	6	5	6	222.024
885	Разветке			***	***	. 244	***	******	*****	54.780	******	******	894 468	12	6 3	1801,000
43	Betel los			***	***	***	800	1,150	8,870	3,695	******	******	95	14	0	*****
24	Sal piles	(2,264			***	***	***	8,350	5,742	3,753	100000	******	40	8	8	195.535
27	Cotton tv				ropean		***	3.975	1,40,350	10,125	******	******	108	14	6	100611
13	Curd	444		1000	500		***	1,830	4,340	3,400	******	*****	30	13	6	*****
30	Miscellar		200	in		***	***	4,430	22,545	10,655	717747	711111	96	4	9	007.000
3	Furnitur				244	-		190	600	403	******	******	7	10	9	*****
7	Bamboos		n nu	mber)	***	300	911	82	83	82	******	*****	1	10	0	111.191
65	Stone pla		150	18.31		***	241	1,450	8,025	2,475		- KREAR	82	0	0	*****
0	Cotton p		oods.			***	471	426	43,000	1,×35		*****		13	0	330,000
	Other me		Tibers.	1843	686.	***	491	850	1,925	1,150	255.00	200.000	17	11	6	
	Intoxicat	mg at	uga	0.00	0.00	101	***	000	1,450	1,100	*****	Region	17		0	******
3,835			TOS	ALLEY CO.	To	tal	***	8,40,297	10,20,591	8,68,584	31,020	5,79,903	8,935	0	3	0 29
3,800	19.	otal of	-	a mont	h lees	YOUR		3,09,094	14,68,195	7,69,020	27,463	4,88,646	7,527	11	0	0 2.9
O-COAR		Drest of	- MONETA	a mone	1000		451	0,00,000	Y4'40', rea	4,00,020	27,400	a*20*040	1,001	**	-	0.29
		41797		LASSIO	وسرووه		4 14								Charles In the	
**	Passenge				(30	500	881	*****	19861	719.191	412.044	*****	163	0	0 0	- Miles
- 111	Demurra	HER, CL	3.	911	- 0.00	***	205	axx 551	******	- CHARAN	204567	******	22	O.	0	*****
-44	1				To	otal	***	10710	34553	.,,,,,,	*****	200200	204	9	0	West at
26	Tot	al of	Mamo	month	last y	OAT	***	- num				34441	208	6	3	******
and last	2200	Cale			-	ale.	Any	Lotal Barrer	AELSO TO	BETT THE	The state of					

Midnapore Canal-concluded.

r of		APPROX	STAME	TORRAGE O	P BOATS.	4		Rate o
Number boats.	Nature of carge.	Weight of cargo.	Value of cargo.	Maunds.	Tons.	Ton- mileage.	Tolinge.	toll per ton-mile
-511	(2)—STORES AN	OD MATERIA	LS FOR I	RRIGATION	WORKS			
-		Mds.	Rs.				Rs. A. P.	E SAGO
100	Nil.	. 195444	******	*****	*****	22222	*****	******
181	Total	* *****	124942	*****	*****	******	245434	44160×
111	Total of same month last year	30000	4944 X	*****	*****	797101	Pitas	111111
84	MISCELLANROUS. Nii.		44444	******	*****	53.83 6 8	*****	******
101	Total		*****	******	*****		******	*****
****	Total of same month last year		*****	*****	******	*****	******	*****
		Al	BSTRACT.		100		1000	
		Mde.	Re.		- 3	i	Rs. A. P.	
8,883	Private, including miscellaneous	3,49,997	15,29,591	8,69,086	31,020	5,79,903	9,140 2 9	
***	Government stores, including miscellaneous		*****	*****	*****	*****	*****	*****
3,853	Grand Total "	8,49,297	15,29,591	8,08,584	31,020	5,79,903	9,140 2 9*	190401
3,917	Grand Total of same month last year	. 3,09,994	14,65,195	7,69,020	27,465	4,88,646	7,786 1 8	
	• This includes to	lls on the Nari	ainghur cha	nnel, amount	ing to Ba.	152-5-3.	4.	
			EMO.			Ra. A. P.		1 1
	Unrecovered balance on the	month		981 PRR 51		856. 2 10 9,140 2 9	1	
	Amount credited in the sec	counts for the	month	Tota		9,996 5 7 7,971 6 9	1.52	
	Balance at	the end of the	month	*** *** *	** ***	2,024 14 10		

Hidgellee Tidal Canal.

LENGTH OF CANAL OPEN-29 MILES.

LOCAL TRAFFIC.

(1)-PRIVATE.

					-									The second second second
								Mds.	Ra.	1		-	Rs. A. P.	A. P.
327	Paddy		***		***	***	***	55,217	41,368	1,08,980	*****	******	1,676 4 8	- Service
400	Rice	300	***	77.5	***	144	***	1,45,866	1,83,748	2,78,065	******	******	3,605 5 9	******
3			crops		***	***	***	800	1,100	1,650	988.109	******	11 5 6	******
41		vegot		***	***	***	***	2,799	7,499	6,783			90 5 8	******
8	Jaggery	***	***	***	***	***	644	580	4,360	1,840	222,400	*****	26 3 3	******
21	Sugar	***	***	***	***	***	405	100	450	240	******	*****	4 5 3	*****
50	Bait	***	244	***	201	HAY	207	9,424	20,847	19,840	257.595	400500	244 1 6	
2	Curd	100	-125	***	***	0.00	244	30	60	200	******	******	1 6 0	
19	Oil	200	***	***	***	Nex	ANT T	2,210	2,066	6,845 17,075	******	******	69 18 6	*****
77	Tohnoco	215	***	444	444	0.00	1911	6,460	20,170	9,905	257122	151513	241 2 0	*****
34	Cotton pier	on-goo	ols (E	urope	(IZIB	***	***	8,840	9,430	1,820	******	******	138 15 6	
9	Iron	***	004	***		100	198	770	9,650	1,850	385144	******	24 9 6 33 8 6	*****
	Cotton		***	160	0.00		111	800	2,150	2,125	******	ARTELL.		200 see 2
5	Jute	***	444		***	***	244	100	2,100	200	200004	100780		PRESENT
1	Bones	***	***	***	755	***	3.77	190	1.520	* 480	*****		0 1 9	NAME OF THE PARTY OF
- 8	Mustard-se	iea	.000	9.11	200	*10	214	300	3,500	625	*****	968199		MAN LAN
2	Bricks	200	***	444	104	100	391	200		475	000601	******		
1	Tiles	424	1319	444	0.50	1.12	177	610	365	1,225		10044	8 6 9	SERVER.
4	Ghooting I	1230	NEX	***	+**	146	99.6	740	608	1,430		A	9 13 0	*****
8	Ghooting Unwrough	Alma I	***	l pile	115	***	22.0	400	434	865		******	14 4 3	-
- 4	Bamboos	e ermi				***	141	64	100	130	******	******	8 6 8	24444
10	Coal and or	Jen.	NEK	14.1	5.33	8.00	***	1,970	870	4,915	441419	*****	82 8 9	- BREVER
	Firewood		***	253	NA.	166	199	420	104	725	******	*****	8 8 9	******
2	Earthenwa	F+F	d onneth	NOT THE	day.	115	315	200		275		period 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	1 14 8	*****
1	Estrocawa	EO-BEN	n ourti	renbo	1600	994	104	991179	173 cm	270	earres.	919111	Y 10 0	*10000
1,109						Total	147	2,32,930	8,45,461	4,67,175	22,261	4,64,214	6,329 7 9	0 3'3
1,984	Total	of as	me m	outh	last	year	204	1,03,735	2,79,135	4,27,575	15,270	3,21,022	5,603 12 9	0 3.3
		Mn	CELL	OHE	US.		H			10000			-Vinterator	Marie St
							10	Maria Carlo	100	1,545		200	23 8 9	
26	Passenger 1		***	2.60	441	565	388	46.11	999 144	1,17,000	100 800	101048	1,458 18 9	
809		do.	414	100	2.00	244	144	8,445	5,299	19,750	E89179 1	485445	137 5 0	*****
50	Straw	904	494	***	217	***	***	720	8,600	2,670	000000	*******	18 5 6	
69	Miscellane	TILE!	***	***	111	444	***	6,180	15,508	15,170	709000	202271	107 2 6	******
1,010						Total .	F94	15,345	24,407	1,56,135	104.717	· · · · · ·	1,819 8 6	*****
			mme m		2		1319	213	897			30000000	17 9 D	

Hidgellee Tidal Canal-concluded.

0		Арриоз	RIMATE	TONNAGE O	DY BOATS.	Ton-		Rate of
boaks.	Nature of cargo.	Weight of	Value of cargo.	Maunds.	Tons.	mileage.	Tollage.	toll per ton-mile.
10.0	(2)-STORES AN	D MATER	IALS FOR	IRRIGATIO	N WORI	(8.		
		Mds.	Rs.				Rs. A. P.	A. F
***	Total		*****	314134	*****	144.11	766 177	*****
7	Total of same month last year	296	783	1,200	48	1,060	18 8 3	0 8
2	MISCELLANEOUS.	480	6,100	1,025	37	901	15 12 8	*****
2	Total	480	6,100	1,025	*****	reins	15 19 8	*****
***	Total of same month last year	******	******	*3****	*****	***	***	*******
		ABS	TRACT.					- 1
	and the same of th	Mds.	Ra.				Re. A. P	
,119	Private, including miscellaneous	2,48,275 480	8,69,868 6,100	6,23,310 1,025	32,281 37	4,64,214 901	8,148 10 3 15 12 3	
,121	Grand Total	2,48,755	8,75,968	6,24,335	22,298	4,65,115	8,164 6 6	*****
,998	Grand Total of same month last year	1,64,244	2,80,314	4,28,775	15,313	3,22,082	5,639 14 9	******
			MEMO.			Ra. A.	P.	
	Unrecovered balance on the l Amount of tollage for the mon		onth	*** ***	*** ***	EV 20 42 A 42		
	Amount credited in the accou	nts for the	month	T	otal	9,444 14 8,589 11	9	
	Balance at the	and of the m	onth	*** ***	*** ***	855 3	3	

SONE CIRCLE.

Eastern Main and Patna Canals.

Length of Canal open—86½ miles. LOCAL TRAFFIC. (1)-PEIVATE.

			Mds.	Rs.				Bs. A. P.	. A. E
200	Nil.	In				Nil.			
201	Total	*40	244794	******	******	*****	*****	220.034	transe
249	Total of same month last year	***	51,160	1,69,088	78,618	2,619	161,279	1,585 0 3	0 1
	MISCRILLANEOUS.								
***	Total	***	*****	111111	*****	*****	******	******	******
***	Total of same month last year	***	- my	83,700	*****	*****	311717	753 1 0	
Til.	(9)—STORE	SAN	D MATERI	ALS FOR II	RRIGATIO	N WORK	8.	-	
			Mds.	Rs.				Rs. A. P.	A. 2
***	Total	ni l	Javiere.			44444	*****		******
24	Total of same month last year	***	810	411	5,484	159	8,500	25 6 6	0 1.8
	MISCRELANHOUS.	1							
***	Total	***			Territa	*****	501111	*****	retude
7	Total of same month last year	***	1100	31111	*****	201244	*****	******	2011XX
	A Charles Manager and Control		ΔBI	STRACT.					
10	Section 1997		Mds.	Re.	or an		- 1	Rs. A. P.	
744 744	Private, including miscellaneous Government stores, including ditto				Nil Nil				
ter.	Grand Total		401110	201703	20012	*****	20111	nun	*****
280	Grand Total of same month last year		51,970	2,33,199	79,102	9,778	1,64,779	2,333 7 9	898940
		111		mmo.				DO 2 8	*
	Unrecovered balance on the 1s Amount of tollage for the mou		ne month		944	***	100		
	Amoun credited in the ancoun	nts for	the mouth	810	tes .	Total	100 1	99 2 3	
	Balance at the	end o	of the monto	***	485	* 100	1	97 18 8	

Western Main Canal.

LENGTH OF CANAL OPEN-22 MILES.

LOCAL TRAFFIC.

(1)-PRIVATE.

2			APPROX	RTAME	TONNAGE O	F BOATS.			Rate of
Number boats.	Nature of cargo.		Weight of cargo.	Value of cargo.	Maunds.	Tons.	Ton- mileage.	Tollage.	toil par ton-mile.
		1	Mds.	Rs.		No.		Rs. A. P.	A. P.
1 53 3 1 19 2	Wheat	***	25,024 881 210 8,846 921 435	275 51,248 7,048 840 26,538 2,763 217	275 83,500 1,800 800 11,876 1,125 600	10 1,196 46 10 406 40 27	100 11,960 400 100 4,060 4 400 210	1 11 6 209 6 0 8 2 0 6 9 9 79 11 0 7 0 6 8 12 0	****** ****** ***** ***** *****
80	Total .		87,027	88,929	48,475	1,666	17,290	816 4 0	0 8.7
***	Total of same month last year		nes.	*****		******	*******	*****	*****
-	MINCELLANHOUS.						1		3,34758
1	Excess toll charged for wrong calculation .		deres deres deres	201478 201478	200 225	70 8	70 80	1 4 9 0 11 8 0 8 9 1 0 0	407417 407417 107467 112141
2	Total .		30000		425	78	150	3 8 0	Danie -
112	Total of same month last year		14111		*****	YATEN		*****	784502

(2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

Building stones		Mds. 200	Rs.	350	12	450	Rs. A. P.	A. P.
Total		200	10	850	12	480	288	0 11
Total of same month last year	***	*****		******	19(144		*****	*****
MISCRLLANGOUS.	1							
Nil				NII	100			1.054
Total	100	.00000	Person.	22104	*****	201201	James	19.73.01
Total of same month last year	***	XXVIA.	******	******	******	******	mm	*****

ABSTRACT.

		Mds.	Rs.	1.43	- 1	-	Rs. A. P.	THE PERSON
82	Private, including miscellaneous	37,027 200	88,029 10	48,900 350	1,744	17,440 450	819 12 0 2 8 8	*****
88	Grand Total	87,227	88,039	49,250	1,786	17,890	323 4 3	
ia .	Grand Total of same month last year	10.00	*****	*****	*****	ALEXEE	11171	280.001

1 1 1 1 1 1 1 1 1	leno.					Ra.	A.	7.
Unrecovered balance on the 1st of the month	***		1	200	446			
Amount of tollage for the month	*01	***	461		***	322	4	8
				Total	***	812	4	8
Amount credited in the accounts for the month	241	- 444	161	To the	164	222	4.	8
Balance at the end of the ment	h	-	100	11.00		ETCA:		

Arrah Canal.

LENGTH OF CANAL OPEN-65 MILES.

8		APPROX	RTAME	TOWNAGE O	BOATS.			Rate of
Mumber boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Maunds.	Tons.	Ton- mileage.	Tollage.	toli per ton-mile.

LOCAL TRAFFIC.

(1)-PRIVATE.

								Mds.	Rs.				Rs. A. P.	A. P.
RI	loe		***	***	***	***		2,867	7,167	4,667	166	9,494	92 16 9	101 577
W	heat	244	***	707	***	***	455	28,386	70,965	88,586	1,378	99,690	601 10 8	******
			crops	***	***	***		183	75	338	12	804	5 1 8	
Jn	RECTY	***	000	***	***	200	***	3,168	7,920	5,558	198	7,238	80 7 0	****
	HEAF	***	***	***	***	***	***	1,336	18,360	2,086	74	2,848	29 11 9	******
80		949	***	***	244	996	***	8,444	25,332	13,644	457	26,570	257 11 9	201101
Su	lees	***	***	141	***	81	***	990	4,950	2,540	54	8,800	26 2 3 1	*****
To	obacco	***	***	***	***	***		1,619	16,190	8,719	132	6,893	72 9 9	*****
Ca	stor seed	***	144	***	***	244		14,080	42,240	21,880	781	80,453	402 10 6	*****
Ti	1 seed	244		***	***	***	***	842	2,526	1,142	40	3,000	17 9 8	*****
B	uilding ste	aow.	***	246	***	***	***	262	4,229	612	22	4,050	9 6 0	*****
80	one lime	414	242	141	24.8	***	202	169	169	869	13	633	6 10 6	*****
Bu	ullahe and	bam	boos (2,121		a num	ber)	******	MARRIET	*****	*****	301111	638 11 9	*****
Co	oal and co	olco	***	***		444	***	1,106	563	1,606	87	1,932	24 9 9	11914
					2	Total	111	63,452	1,95,676	95,647	3,414	119,715	2,263 10 6	0
	Tota	l of a	ame r	nouth	last	year	74-	*****		****	111111	******	******	
		Mxs	OELL	ANEO	vs.	× 3								
Pe	usenger b	nake			0.0	***	100			2,853	102	7,588	57 6 6	
	upty boat		***	***	***		***	******	******	10,953	371	14,998	79 12 9	86819
	raw	224	***	***	***	***	***	80	25	150	5	285	4 14 9	843.12
	rniture	***	***	***	***	***	***	459	2,290	909	32	1.636	13 10 9	****
	ntes	***	111	***	***	***	-	75	150	375	12	810	8 3 6	*****
	unny	***	***	* ***	***	***		863	7,528	2,218	79	3,926	39 1 6	****
	oppy leave		***	119	3.53	244	***	245	61	395	14	207	3 4 0	****
Po					2	Cotal	444	1,692	10,040	17,948	615	29,475	206 6 0	700.14
Po														

(2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

	Marie Land		Mds,	Rs.				Ra	A- 1	P.	A. E.
6	Buildings stones	,,,	2,088	261	2,988	206	8,539	29	9	9	***
6	Total	***	2,088	261	2,988	100	5,539	20	9	9	0 1
	Total of same month last your	E41:	MARK	47744		una	******				inter
	MISCHLLANHOUS.		-							1	
1	Poppy leaves Empty boats	***	416	104	616 935	22 33	1,254	13 9	5	0	******
7	Total	291	416	104	1,551	85	2,986	22	7	U	275.055
Ĝ	Total of same month last year	19.5	843.489		******	******		in	is.		*****

ABSTRACT.

10.00		Mds.	Rs.	Service Land			Rs. A P.	A. P.
879 13	Private, including miscellaneous	65,144 2,504	2,05,725 865	1,13,595 4,539	4,029 161	2,49,190 8,475	2,470 0 d 52 0 9	*****
892	Grand Total	67,648	2,06,000	1,18,134	4,190	2,57,665	2,522 1 3	(*****
591	Grand Total of same month last year	*****	settin . The	VIVA.	*****	*****	snys	11000

N Comment of the Comm	BHO.		H		Re.	٨.	P.
Ourecovered balance on the lat of the month	244	200	***	401	24	1	
Amount of toliage for the month		781	- 100	464	3,532	1	ä
AV.			Total	100	2,846	2	3
Amount credited in the accounts for the month		100	191	201	2,505	8	
Balance at the end of the mouth	***			-	40	10	3

Buwar Canal.

LENGTH OF CANAL OPEN-434 MILES.

0		APPEOR	RYAMI	TONNAGE C	P BOATS.	Ton-		Rate of
Numbe boats.	Nature of cargo.	Weight of cargo.	Value of cargo.	Maunds.	Tons.	mileage.	Tollage,	toll per ton-mile.

LOCAL TRAFFIC.

(1)-PRIVATE.

-			1	Mds.	Re.	-		1	Re. A. P	A. P.
6 128 2 2 2 1	Rice Wheat Fruits and vegetables Jaguery Tobacco Gooting lime Hullahs (11,884) Bamboes (667,075)	101 M1 111 101 M1 111 101 M1 111 101 M1 111 101 M1 M1 101 M1 M1 101 M1 M1 101 M1 101 M1 101 M1 101 M1 101 M1 101 M1		406 57,237 75 825 500 175	687 85,174 75 650 1,400 30	550 40,119 225 550 850 200	30 1,754 8 20 19 7	997 61.303 268 868 1,940 245	15 13 9 75d 13 9 3 6 0 6 5 0 11 13 0 5 4 0	100000 100000 100000 100000 100000 100000
161		Total	***	88,712	88,016	51,494	1,838	64,421	1,093 11 6	0 8:8
841	Total of same	month last year	***	111111	733701	Yesus	197711	77111-	- 111111	espect ?
	MISCELL	ANEOUS.	-	- 1	1			1		
147 2 1	Passenger hoat Empty boats Furniture Gunny Excess toll realized for	wrong calculation	on	800 10	2,000 175	18,700 025 50	450 22 22	48 18,653 2,376 76	0 9 0 106 11 8 27 5 6 0 12 6 0 11 0	*****
151		Total	-	310	2,178	14,475	516	21,153	186 1 3	*****
***	Total of same	month last year	***	141141	******	*****	*****	330774	anne -	MERALE

(2) STORES AND MATERIALS FOR IRRIGATION WORKS.

1			Mds.	Ru.		1		Rs. A. P.	A. F.
	Nil.		\$66 AT	d max	******	111717	111.10	471500	20000
**	Total	981	145747	******	HILL	*****	*****	of the same	
**	Total of same month last year	361	217.174	119111	XXX ex	PROCES !	ann	A	
1	MISCRLLARROUS.			- 4.	71-1		-	and the same	
1	Empty boat		more		100	8	108	0 11 6	*****
1	Total	-3:11		SALES OF	100	- 8	103	0 11 6	******
**	Total of same month last year	***	20101	*****	*****	*****	******	******	Torrai.

ABSTRACT.

202	Private, including miscellaneous	Mdn. 59,022	Rs. 90,191	65,909	2,354	85,574 108	Ra. A. F 1,229 12 9 0 11 6	100,000
293	Grand Total	69,022	90,191	60,000	2,857	85,683	1,230 8 3	101/11
10	Grand Total of same month last year	10000	******		*****	******	(1202)	

						-	200	220
Unrecovered balance on the 1st of the month	101	688	201	160	861	31	18	6
Amount of tollage for the month	194	301	- 44	100	1	,280	8	3
- Control of the Control			1-10/14/2014	Total	1	,982	8.	
Amount credited in the accounts for the month	300	946		***	l	,108	12	8
Balance at the end of the morti	1	***	*16	441		163	0	
	4000		NET BEAUTIFE			-	-	-

ABSTRACT.

	TRAPPI	c, 1888-84.	TRAFFIC	, 1882-83.	- 10
Canal.	During the month.	To end of the month.	During the corresponding month.	To end of the corresponding month.	Remarks.
ORIBBA CIRCLE.	Ra. A. P.	Bs. A. P.	Rs. A. P.	Rs. A. P.	Tarva.
faldunda Kendrapara High Level, Range I Ditto, ditto II	19 2 8 0 4 9 247 3 6	336 13 0 6,730 4 6 1,454 8 3 924 6 3 250 15 8	267 14 8 193 18 0	598 12 5 4,882 12 8 512 6 3 1,583 15 3 244 15 2	
Total Orisea Circle	259 10 B	9,303 0 4	465 6 8	7.822 13 9	
SOUTH-WRITERN CIRCLE.					
Midnapore	9,140 2 9 8,164 6 6	19,376 14 9 12,180 7 9	7,786 1 8 5,439 14 9	15,140 9 6 11,866 1 0	
Total South-Western Circle	17,304 9 8	32,557 6 6	13,376 0 0	27,006 11 3	- 9
SOWN CIRCLE.					
Eastern Main and Patna	823 4 3 2,522 1 3 1,230 8 3	1,172 2 6 424 15 3 3,408 14 0 1,739 11 0	2,535 7 9	5,471 10 9 139 3 0 603 15 3 149 18 11	
Total Sone Circle	4,074 13 B	6,745 10 9	2,333 7 9	6,264 12 11	
GRAND TOTAL	21,639 1 8	48,696 1 7	16.174 14 0	41,094 5 11	

GOVERNMENT TRANSPORT SERVICE.

	-		TRAPPI	0, 1888-	14.					TRAFF	IC, 1889	2-83.			
	Du	ring th	e month.	Toe	nd of	the month	i.e		g the c	orrespond-		nd of t			
CANAL	Passengers.	Goods.	Total receipts.	Pansengers.	Goods,	Total receipts.		Passengers.	Goods.	Total receipts.	Passengers.	Goods.	Total vacaints.	and sonot seed t	
ORISSA CIRCLE.	No.	Mds.	Rs. A. P.	No.	Mds.	Ro. A.	P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs.	A.	P.
Taldunds and Kendrapara High Level	144	*183 391	46 15 8 222 5 0		*188 1,661	8,307 15 727 10	6 7	100	***	8 12	0 1,116 145	264	2,765 101	4	7
Total Orissa Circle SOUTH-WESTERN CIRCLE.	194	391	269 4 8	2,213	1,661	4,035 10	1	in.	244	2 12	1,261	264	2,866	6	7
Midnapore	10,877	329	1,000 0 0	22,501	732	2,000 0	0	14,312	238	4,184 0 0	25,814	646	8,540	0	
Total South-Western Circle	10,877	329	1,000 0 0	22,501	732	2,000 0	0	14,312	238	4,594 0 (25,814	646	8,540	0	0
SONE CIRCLE.															_
Rastern Main and Patna Western Main and Buxar Arrah	1,722	3,792 3,048	1,184 11 6 1,027 0 0	417 2,516 3,865	1,686 5,817 4,797	434 2 1,783 7 2,770 0	9		4,302	1,909 8 (3,602 607 593	6,867 2,776 1,918	8,140 896 809	1 6	0 3 0
Total Sone Circle	4,512	6,838	3,111 11 0	6,798	11,800	4,937 9	9	2,177	4,802	1,909 3	4,804	10,656	4,045	5	-
GRAND TOTAL	15,533	7,558	4,380 15 3	31,512	14,193	10,973 8	10	10,489	4,540	6,495 15	81,879	11,566	15,451	11	4

Parcels.

TOTAL NAVIGATION RECEIPTS.

Philippin St. Continue Continu	BARNING	s, 1883-84.	EARNING	, 1882-83.	
	During the month.	To end of the mouth.	During the corresponding month,	To end of the corresponding month.	Remarks.
Action to the second second	Rs. A. P.	Es. A. P.	Ro. A. P.	Re. A. P.	17 65
Midnapore canal	528 14 11 10,140 2 9 8,164 6 6 7,186 8 9	15,888 10 6 21,376 14 9 18,180 7 9 11,685 4 6	12,320 1 3 5,639 14 9	10,680 8 10 23,680 9 6 11,866 1 9 10,310 2 2	*
GRAND TOTAL .	26,020 0 11	59,579 8 5	22,670 13 0	56,546 1 8	

C. W. ODLING,

CALCUTTA,
The 17th July 1883.

Under-Secy. to the Givernment of Bengal, P. W. Dept.

Report on Traffic of the East Indian Railway during five weeks ending 26th May 1883.

Materials carried on Revenue account, in-ciuding maintenance. THE audited figures for the period are as follow :-Total. Ra. Mds. Ra. Ba. Mds. No. 40,14,608 32,06,837 52,05,978 42,73,947 1,04.41,265 97,23,182 11.91.369 1,184,824 86,339 3,50,68\$ 9,32 031 7,18,083 8,07,772 1,24,259 241,191 Decrease ...

lucreases por cent. in earnings—
Conching ... 11:64.
Goods ... 25:18.
Total ... 21:80.

The following is a statement of audited Coaching Traffic during five weeks ending 26th May 1883 as compared with 1882.

		1	1883.	1	1882.		Incremen.		Decreas	10.
DESCRIPT	rions.	-	No.	Hn.	No.	Ra.	No.	Ra.	No.	Rs.
First class	Ordinary		3,265 701	28,004	3,136 1464	29,560	119	*****	46	#1,836 801
First class	Total	-	3,320)	29,178	3,2024	31.215	119	*****	40	2,037
Second class	Ordinary		9,890)	33,731 6,603	9,987 2,082	34,298 8,407	*****	******	741% 741%	557 2,494
Second class	Total		11,109	30,734	12,010	42,785		111	820	3.051
Intermediate class	Ordinary		48,422	87,017	83,821	61,720		40	89,390	14,705
TD/61Decrete comp	Total	-	43,422	87,017	83,823	51,726		** ***	38,401	14,70
Third class	Ordinary		1,1:8,307	9,71,824 7,474	841,4461	8,211,498 14.015	2-1,5564	1,42,836	1,520	6,54
Z mira Comm	Total		1,124,8774	9,79,286	846,880	8,43,503	281,859)	1,41,836	1,520	6,56
Lucrate	{ Ordinary Military			81,800 1,750	*****	32,503	*****	*** **	*****	(12) 80
Problema	Total			33,580	*****	34,847		111101		1,28
Horses, carriages, dogs	{ Ordinary		30.00	11.634 2,321		18,616 1,450	17-17-1	871	*****	3,98
30 Ot Build	Total			13,965	*****	17,060		871		3,98
Payoels	46* ***			80,650 27,946	******	25,480 20,482	410.00	5,164 7,466	******	*** **
Other traffic	Total		*****	58,598	******	48,968	411114	12,630		
	Grand Total		1,184,824	11,91,369	943,633)	10,67,110	281,9771	1,55,857	40,787	81.6
1.	Net				*****		241,190	1,24,259	****	****

The increase is in third class ordinary passengers who appear to have been moving in large numbers to the various mela The increase of pilgrimage.

and places of pilgrimage.

The average number of passengers in a train at any one time was for the period—

May 1883

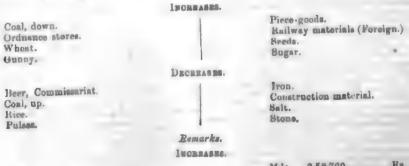
1882

shewing the necessity for the extra train service.

266

The main features in the month's traffic are the large increases in the export wheat and seed trade, and the falling off in weight and carnings of materal carried on construction account.

The principal fluctuations are given below:—



Rs. 51,210 Mds. 3.52,760 Coal, down

Mds. 3.52

Asansol, Barakar, and Giridi show increased despatches downwards, chiefly to Calcutia.

Ordnance stores This arises at Howrah, and or	onsisted of a large o	uantity of an	munition	Mds.	6,160 ed to Rawalnia	Re.	21,810	
Wheat	****			Mdo.	11,45,160		5.86.390	
	D. 144 111	***	***	Mds.	55,980	Ra.	52,890	
The large export of country p								
Piece goods	***	***	***	Mds.	55,640	Re.	40,640	
Improved demands in the Tir	hoot and North-Wes	et districts wi	ll account	for the li	urger despatche	a this year	r.	
Railway materials (For Consignments for the Patna	eign)	100	***	Mds.	1,31,950	Ra.	95.570	
Consignments for the Patna	Burnich Railway	to Bankaghs	t, to Ben	ares for	the Oudh and	Robilkhu	and Railway	, and to
Cawapore for the Furruckabad lin		_			0.50 440	-		
	Annua Calausta and	***		Mdn.	2,73,440	Rs.	1,81,750	
Vory large exports of oilseeds						D -	4.040	
Increases appear at Patna, Bei	Minner Winner			Mds.	23,930	Ro.	4,840	10
Ancreases appear at tatus, ties	mires, muraspore sa	a Cawnpore.						
		DEGREAGE	10.					
Beer, Commissariat This fluctuates a good deal.			0 0 4	Mds.	15,770	Ra.	18,110	
Coal, upwards				Mds.	81.870	Re.	82,170	
Decreases are shown against A	sangal Sastaraman	n and Hamks	w in woigh					lock
Rice	minor, vector ample			Mds.	84.040	Ra	31,210	N/Pro-
The demand in Calcutta has b		***	***	day com.	01,010	200	01,020	
Pulses			***	Mda.	68.000	Ra.	23,010	
The exports from some stations	a to Howrah were n	ot large.	***		00,000	-		
Iron	111 111	41		Mda.	7.890	Re.	15,020	
There does not appear to have	been ony but norms	al demands fo	r first class	iron, w	hile the despa	atches of	machinery,	second
class, fell off also.								
Construction material	***			Mdn.	12,09,050	Ro.	32,390	
The doubling of the line between	een Buxar and Mog	halserni has b	een comple	eted.				
Salt	***	***	***	Mda.	49,790	Ro.	28,770	
The following statement will e	xplain where the fa	lling off has a	risen.					

Salt Traffic during five weeks ending 26th May 1883.

									Incres	Reed.	Doore	n.000.
			STAT	ions,					Mds.	Ra.	Mds.	Re.
Iowrah Shadroswar Shagalpur Atna Ghat Dinapur John Fia Agra, K. Fia ditto, S. gra Fia Delhi, B. Fia Jubbulpu	M. R.	***		**** **** **** **** **** **** **** **** ****	100 100 100 100 100 100 100 100	000	100 100 100 100 100 100 100 100	000 000 000 000	520 550 2,030	260 20 910	27,470 	11,800 550 80 1,070 3,550 9,880 2,310 900
						1	l'otal		87,140	1,400	86,510	30,140
					Net	Dec	rease				49,370	28,740

Stone ... Mds. 22,240 Rs. 7,020

This decrease is at Luckees rai in rubble stone for ballasting roads, &c., and operations were temporarily suspended owing to employment of carriage in more important traffic.

The train mileage for the period has been, excluding maintenance and locomotive coal train mileage —

					Conching.	Goods.	Total.
					Re.	Re.	Ra,
1888	***	***	***	0.00	3,22,446	7,15,897	10,38,348
1882	***	0.0	849	004	2,58,985	5,22,116	7,81,101
Increase		144		9.00	63,461	1,98,781	2,57,242
Decrease	800	0.00		000	***	*4*	***

Earnings per train mile, excluding materials carried on Maintenance and Revenue account-

,	4					Coaching.	Go	ods.	Tot	ml.
	1					Rs. 4. 2.	Ra.	A. P.	Re. A.	P.
1888		, 100	000	***	***	8 11 1 6 1 11	5 6	9 9 8	5 0 5 7	7
Increase Degreese	1	000	***	***	900	0 6 10	0	8 6	0 7	

Shunting miteage increase hours 842.

EAST INDIAN RAILWAY.

Statement showing the Totals and Increases and Decreases of Staples during five weeks .
ending 26th May 1883.

			APLE					Wa	ONT.	AMO	UNT.			Net.	
		107	APLI	BB.				1982.	1883.	1852.	1683.	Incr	ORAC.	Deore	nano.
								Melu.	Mela.	Rs.	Ra.	Mds.	Re.	Mds.	Ra,
Beer, Com	mine	rint	994		0.00		0 × 0	21,800	6,030	21,630	3,520	444	2007	15,770	10,11
1101	Com	THERE	int		0.0 1	+ 6.0	**	·6, (1051)	46,25 6:0	(5,35:21)	6,190	290	140	******	
Betel-nuta				0.01	0.01	***	***	15,630	17,280	17,740	20,050	1,000	2,51111	*****	*****
Boots and			0.07	9.6 1	0.0 4	***	* * *	12, 22 (41)	2 3 50	25,150360	3,350	100	80 1	******	******
Brana and			0.01	0.01	4 = 4	* * *	0.1	17,350	16,980	15, (40)	15,130	******	091 000	370	8
Britis	4 + 1		400	***	1.41.1	***	842	7,35,740	6.53.870	580	1.020	2,310	440	*****	
Jonl, up	171	001	***	0.01	***		***	13,24,100	16,76,%00	1,85,880	2.51.7100			81,670	32,1
,, down	d con	PARTIES.		447				10,291	10, 20, 500	15,020	2.37,030	8,52,700	61,210	400104	177.41
loggon was	u cup	***	***	404	000	***	*** 1	68,910	74, 800	5-1-11000	12,530		*****	100	1,1
a Swin		010	***	400	***		***	14,650	12,460	litterial ,	14. 451)	6,550	4,980	471(1)	600.101
Dye-wood		***	400	***	***		***	8,170	8,590	6,180	E, 5(31)	420		2,190	1,6
Impty coc		dic.		***	***	001	***	11,550	N,19100 1	5, 4100	5,1999		180	0	*****
rewood	100						***	42,530	30,440	3,150	2,780	****	REPORT	2,510	- 4
ruite			***	101	0.01	100	***	11,1020	14,600 ,	0,510	11,936	2,0%0	320	6,090	1
ben sent	glass				***	***		7,0000	(n, 6+204)	8,090	h,390	490	300	******	400+00
hee and	cett.			844		001	**	39,550	35,240	45,4070	45,700		1020	1 6 140	9.6.4.4.4
3. B. T. pa	LCK RE	MB		441	0.00			1,020	1(71)	3, 40 1	3.740	43.111		1,310	******
overnme	at Co	mmiss	urint	store	M ***			14,630	3 34, 22 6 64 1	11,550	30,850	11111	******		1
01	U1	dname			0.00			16,200	20,320	25,420	47,4511	6,160	21,810	1,370	1,2
			/ Har		0.0.0	0.00		1,24261	1,200	1,12314	70		84,010	620	*****
			Unt		***	0.04		33,670	40,430	7,750	10,150	6,760	2,400		1,1
BRAINS, I	DIE	LE, de	late		0.014	4.614		4,60,250	4,26,210	1,86,040	1,04,830		-,000	84,040	***
PULSES.			1 11 11		444	***	4000	10,67,670	22,10,8680	4,00,830	9,87,210	11,45,100	8,46,390	*****	11,1
				er gr			44	2,34,840	2,40,870	63,210	85,050	6,030	*****		******
			_	nan ol	ali kin	da	***	1,89,560	1,21,550	52,110	29, 100	*** **	*****	48,000	4,1
unny	As comes a	***	4.0 +			***	44.	\$97,8590	1,58,410	65,6 ku	1,15,370	85,090	34,800	******	24,0
lides and			4.4 +	0.00	0.0.0	1.0.0	4.4	52,030	69,870	34,240	37,330	7,240	3,090	*****	
ndigo	704	* * *	***		1.0.4		**	81,240		200	220	650	20	###***	
RICKTOO			***	***	0.0.5	101	0.0 <	1.71.610	2,30,020	74.010	50,020	*****	*****	7,390	18.0
MIC TOO	004	0.0.0	40.0	***	411			28,4110	32,690	114,0000	441, 1866	85,510	******		8.7
linorals		***	***	***	9.0	4100	***	1,46,680	1,53,650	30 (814)	2 1,400	Juli, E	4,430	11100	
lowah flor		***	***		***	101		41,580	64,030	-04141241	80,110	8,1150	2,000	*******	******
ol-cake		121			**		44.	81,550	19,010	6,,,00	4, 1000	12,600	district !	*****	******
mum	111				444	101	40.	417,5190	46,000	81,650	82,470		*****	1,640	4
BIRGE	***			0.00	104	***		45, 61	8,130	9,700	11,181111	1 (0)	820	3,500	NOT 100
iece-good	Ø		197	701	100	111	141	1,96,350	2, \$1,1650	2,09,330	2,49,170	1,390	230	*****	ARRIVE
lailway m		da, Cor	nstru		account		**	15,48,550	2,000,5000	38.7 111	65,360	55,644	40,6 Au	21.141	
2.2	0.0	Fo	reagn		1000			30,1150	1,70,000	19.590	1,15,160	1,31,950	400.070	12,09,050	32,5
loota		***		***		4 9 4		23.130	22,770	10,030	25, 630		96,570	000.00 doubles	
ralt			111	411	0.01			6,47,15m	6,117, 1001	1,66,860	1,50,070		******	2030	1,6
slipetre	6 4 4	***	* + 4	401	***			74,000	72,460	25.7.435613	34,350	***	*****	49,700	28.7
detect III	***			0.04				13,78,570	16,52,010	5,50,650	7.18,260	2,73,440	1,31,750	8,650	, 8,8
Alk	1997	100	4.4	* * *	* * *	* # #		X.762849	2.200	3,100	25,45000	27,107,000		43.0044	177173
pelter	0.00	16.6	499	TWA s	4.4.6	* 4 4		7,490	41,4850	10,750	61,0060		*****	1,000	
pieces		* * *	100	4.63	1.6 4	*.4.*		17,540	24,1440	11,500	10,600	5,400	4,800		4,1
lones	0.9.1	4 9 7	2.0.4	* * *	4.9.4	* * *	4.4.	1,22,mm	100, 74kp	20,000	12,000		121101	33 340	40.11.
em english	1 - 1	+ # #		* * *	+ 6 (1)	1999		2,17,190	3,21,010	1.02.740	1,07,550	23,1060	4,540	22,240	7,
'mbor	8.6		* * 6	0.04	***	100		2,510	4,000	5,200	4,520	2.110	9,00	400 140	******
obacco			* 0 0	000	4.6.1	***		D45, (1914)	62,070	14,000	10,470	113741	*** **	4,020	
urmeric	* * *	***	0.4.0	0.00	* * *	* * 1		7,02,410	97,940	54,120	511,7151	11000	5,550	3,470	
Viries	***	***		9.64	***	4.4	1	15,Shu	10,570	5,8.0	Si, dayis			20043	
Lucollane		***	***	0.00		1.1		5,7th)	5,410	12,200	11,100	***		380	
				7.0	* *			1,966,866	2,11,d10	1.72.100	1,71,780	15,810	5.80	11	1,0
					T)	otul	1	97.35,200	1 200 41 47544	13 of 440 19 may 1	An. 40. W				-
					4	0141		01,00,500	1,04,01,630	32,42,770	40,40,780	21,80,420	10,23,860	15,20,090	2,10,5

URBAN BROUGHTON, Offg. Traffic Manager.

Report on Fluctuation of Traffic on the Tirhoot State Railway for the month of May 1883

The total quantity of goods carried during the month of May 1883 aggregated maunds 3 00.831 as compared with maunds 3.36.372 carried during the corresponding period of 1892, and maunds 3.27,604 carried during the previous month, showing decreases of maunds 35.541 and maunds 26.773 respectively

Of the several increases and decreases, the following are the most prominent ones and worthy of special explanations:—

INCREASES.

Food-grains

Mds. 2,896

This traffic is chiefly rice from Durbhunga and other stations on the Franch Line, and the increase is due to the demand for foreign The stocks in the local markets having been exhausted owing to the small quantity imported last month, merchants had to buy extensively to meet local demands.

This increase is due partly to the exten-ions of the line, partly to the high rates ruling in Calcutta, and partly to the fear of a block on the East Indian Railway.

DECREASES.

Coal Owing to the contractors for the extensions of this Railway having burnt nearly all the bricks and ballast they require
Hides and horns ... Mds. 24,030 Falls off in the hot weather, and decreases probably due to the weather being more favourable for cattle than usual at this time of the Mda. 4,505 Due to small quantity of machinery having been imported by planters during the month.

Lime and kunker

Owing to the completion of the civil buildings at Durb anga and of the extensions of the line.

Railway unterials 11.607 Mds. 25,248 The decrease in this commodity is due to the completion of the three extensions of this Railway 1,298 Tobacco
This is probably due to there not belog a sufficient number of h comotives on the line to convey all traffic away that was brought in

daily.

TRAFFIC DEPARTMENT.

Statement showing Increases and Decreases in Manualage of principal Staples carried over the Line during the month of May 1883 as compared with the corresponding period of 1882.

7,77	43					188	3.	188	2.	Total	l.		
	BTAI	LES.				Up.	Down.	Up.	Down.	1883.	1882.	Increase.	Decrease.
Coal cod-grains since in the sand horn induction and horn induction and kunt inco-goods tallway materical petro cods all petro cods all concere woods	n er	000 000 000 000 000 000 000 000 000	***	***		32.348 1,402 2,448 3 3,702 4,101 16,244 28,036 32,461 752 32,0	200 25,556 639 2,59d 81 81 10,091 2,018 14,527 40,687 31,843 18,046	50,679 19.251 093 2.394 38 8.079 15.694 13.301 60,100 98,764 688 221 2.13,023	5, 180 1, 241 1, 5, 5 5, 5, 5, 9 10 210 12 7, 7, 7 2, 1916 87, 7, 7, 2 53, 429 13, 808	32,543 27,286 7,093 3,487 2,488 3,783 4,101 16,30 8,547 34,400 14,527 BO,030 52,133 30,886	59,573 24,594 2,811 6,377 10 8,284 16,704 13,435 61,635 31,86 13,646 37,081 33,41 27,492	2,803 2,803 3,850 3-1 12,605 13,383	26,030 1,384 10 4,5 11 11,607 28,269
			3,	otal		1,44,310	1,56,521	2,19,444	1,10,928	3,00,831	3,86,872	33,247	70.70
					-					Net decrease	35,541		

W. E. Hault, Traffic Superintendent.

Calcutta and South-Eastern State Railway.

Statement showing Increases and Decreases in maundage of Staples carried over the line during the month of June 1883, as compared with the corresponding period of June 1882.

		STAI	PLBO.				168	8.	2.88	8.	1889.	1888.		
-							Up. Down.		Up.	Up. Down.		Total.	Energee.	Decrease
Building m Railway m	naterials	140	***	***	***	•••	Mds.	Mds. 6,151 7,621	Mds.	Mds. 1,192 192	Mdn. 8,151 9,276	Mds. 1,122 123	Mde.	Mds. 7,02 9,15
irewood lay traw Vooloo lace addy undrice	000 10+ 000 11+ +11 00+ 000	***	***	000	000 010 000 000 000 000 000	01.	87,292 7,540 2,880 1,680 12,647 2,252 840	8,333	84,360 11,100 1,138 860 26,103 1,584 1,651	3,315	87,242 7,649 2,680 1,080 12,497 2,292 4,193	1.680 84,360 21,160 4,453 860 28,163 1,564 7,444	1,600 3,660 1,578 15,416	8,02
				Tol	lal	***	66,846	19,125	78,496	13,148	. 85,971	90,638	28,490	20.85

						-	
Coal	L	NOBEASE-					Mde.
This increase is due to seel being required for	a Aba manh	1 6 42	F11 111	***	***	***	1,690
Coal This increase is due to coal being required fo	r the work	ing of the	Kice-mills	at Canning	on a larger	scale	than the previous
Hav							
This increase is due to favourable market.	* * *	***	0.04	400	49	844	3,560
Straw	***	* * *	* * 1				1,578
This increase is due to greater demands at sel							
Bice	**	400	***	***	844		15.416
Rice This increase is due to mills at Canning Work	ing on a h	arger scale	than the p	TEVIOUS YEAR	and ernor	to of	rice from Blown
and the same of th				3	023.00	00 00	THE STORT AND THE
Sundries	***	**	***				8,251
This increase is due to exports and imports of	miscellane	ous goods t	o and from	the artensi	00	0.00	0,201
A		8			va.		
and the second second	Da	CEBASE.					Mds.
Building materials	***	***	***	100	***		7.029
This decrease is due to works for the extension	coming to	close.		100	***	4.00	1,059
Railway materials	***		***	***	30		A 2#4
This decrease is due to completion of the exter	nsion.	***	***	***	84/	***	9,154
W21							Tr, MC
This decrease is due to less import of firewood	at Cannina	and Draw	stations f	- Ah	***	10.0	2,922
				or the rough	mess of the	LIAGL.	
This decrease is due to unfavourable market.	000	400		4 9 5	1 4 0	0.00 0	820
Paddy							A con-
	* * * * * * * * * * * * * * * * * * * *	000	***				898
This decrease is due to less demand at the sell	ing statiom	l.					. 3
141							

Calcutte, the 16th July 1883.

R. G. MOOKERJEE, Manuger.

Nalhati State Railway.

Statement showing Increases and Decreases in maundage of Staples carried over the line during the month of June 1883, as compared with the corresponding period of June 1882.

						188	18.	180	8.	1888.	1888.	Increase.	Decrease
87	APL	18.				Up.	Down.	Up.	Down.	Total.	Total.	AUGUPONDO.	Decreases
14-						Mde.	Mds.	Mds.	Mdn.	Mda.	Mds.	Mds	Mds.
Bilk and silk cloth Edible grains Brass and bell-meta Eugar and jeggres Picca-gouds Cotton Seeds of all corts Ecvenue stores Sundaries Coal Bait Juto	000	100 000 000 000 000 000 000 000	000 100 100 100 100 100 100 100	000 000 001 000 000 000 000 000	000	951 102 1,289 1,640 724 2,961 540 3,462 1,367 5,025	521 3,175 56 678 3,036	1,118 190 770 1,783 786 4,366 496 8,567 2,035 3,266	478 1,041 34 68 2,666	811 8.126 157 1,289 1,640 734 3,061 1,218 5,474 1,367 2,023	484 2,159 215 770 1,788 786 4,386 594 6,485 2,988 2,288 4,748	163 42 3,805 861 668 245 4,748	819
			3	lotal		14,159	5,461	17,866	9,228	19,000	26,593	9,170	2,177

Juc	to	an 201 4		*****	40.111	4,748	******	4,748	4,740	*****
		Total	. 14,159	5,461	17,865	9,228	19,000	26,593	9,170	2,177
Cal	Seeds The increase is due to l Jute This increase is due to d dcutta market.	high rate in t		in the river	4 • •	thee which	carries th	e traffic;	3	.748
	Edible grains		***	DAGE	MANUE.	***	***	***	***	967
4	The decrease is due to be Sugar and Jag The decrease is due to	grec			***	***	*** ** ******	***	+64	519
-	Revenue store This decrease is due to	ill.	ing carried		train.	***	*** Calling	1100000 510 S	***	654
	Calcutta, the 16th J						R. G.	MOOKER	JEE, A	lanager.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 7th July 1883 on 1,509 miles open.

Total Control	COACHIN	G TRAFFIC.		MERCHANDISE TRAI	AND MINERAL	Other earmi		Total carnings.	TOTAL T	BLITH-WILLE	HEER.
· control	Number of passengers.	Concluing recoupts.		Weight carried.	Receipts.	(estimated	1).	torm ontmiga.	Coaching	Morehan-	Total.
200		Ra. A.	P	Mdn. u.	Ru. A. P.	Rs. A	. P.	Ra. A. P.			•
rotal traffic for the week or per mile of rai-way For previous week of half-	306,542	2,24,420 14 145 11		26,84,512 30	9,10,637 4 0 541 2 10	10,7±6 7 13 1	11	10,60,803 0 11 702 15 0	63 467	170,410)	\$10,592
year	111100	*****				* - * *		,.,		*****	100000
Total for 1 week	206,542	2,21,420 14	0	20,30,512 30	8,14,637 4 0	10,740 7	11	19,60,80\$ 9 11	68,467	176,815}	240,252
Comparison.							-				
Petal for corresponding first a days of previous year Per mile of railway correspond-	190,322}	2,13,781 14	7	23,52,083 0	6,53,593 5 6	12,200 5	1	8,70,011 0 2	56,235	133,014	179,379
ing ported of previous year	*****	141 14	2	******	483 12 6	8 2	3	593 12 10	100107		126544
provious year	199,3224	2,13,781 14	7	25,52,988 0	0,63,598 6 6	12,266 5	1	8,79,611 9 2	86,235	123,014	178,27

EASTERN BENGAL RAILWAY

Approximate Return of Traffic for last 14 days of June 1883 on 2067 miles open.

	COACHIN	O TRAFFI	c.	MERCHANI		PPIC ALINA	12.41	1	Other ear	11234			Mag. 1	RAIN-MILEO	MOE.
	Number of passongers.	Coanna		Weight darr	14-17	Recuip	tr.		(ontimized)		Total carning	Conchi	ng.	Morehan- disc.	Total.
The engineer control	1	Ra.	A. P.	Mas.	a.	Ra.	A. E	Pr.	Ra.	A. P	liu. A.		-		4.6
Total traffic for the week (ir per little of railway For previous 24 weeks of haif-	118,875	69,383 335	9 8			98,736 477	9	0	27,011 130		0 1,95,133 0 7 913 13		1581	1.,6268	25,793
year	1,350,759	R, 11,457	0 (71,00,331	0	14,01,164	0	(1)	10,395	0	0 28,51,010 0	0, 167.	2021	212,787	880,020
Total for half year	1,464,134	0,12,810	0 (70,98,050	()	15,80,000	0	0	43,400	U	25,48,749 0	0 183,	151	225,360	405,814
Companies.												1	1		
Last 13 days of 1988 Per muo or ranway correspond-	62,432	55,420	0 0	5.64,759	0	95,082	0	0	18,832	0 (1,70,440 0	a 10,	9423	12,1252	23,070
For the half year	1,215,677	7,93,683	14 (8,286		11,19,212	13	0	48,120		4 993 5 0 19,56,215 0	0 151,		179,8584	834,318

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 7th July 1883 on 2061 miles open.

1		-/-	-	*				.ar.									- Arguri	
du como april e las		Ra.	A. 2	P.	Mds.	ø.	Ra.	Α.	P.	Rs.	Α.	P.	Ra.	A.	P.			
Total traffic for the week Or per mile of railway For previous week of half-	- 67,673 327	84,144 165	2		1,95,094		38,103 184			143	11	0	72,150 350	0	9	5,051 8	8,400 }	14,452
year	******	*****			*****		* 111111			0 *****		!	*****			1 (4 + 0 4	144403	******
Total for 1 week	67,678	34,144	()	0	1,95,094	(1)	38,103	0	0	149	0	U	72,450	0	0	8,0518	o,dling	14,462
COMPARISON.																		
Total for fleat 8 days of July 1882 Per mile of railway correspond-	60,238	83,967	0	0	2,13,823	0	31,002	0	0	377	0	O	65,346	0	0	0,4261	8,4912	15,251
ing week of previous year	380	197	12	4	1,246	0	160	8	1	2	3	2	380	7	7	*****		
previous year date of	66,238	35,967	0	0	2,13,828	0	31,002	0	0	377	0	0	65,346	0	0	0,826}	6,4241	15,05

Includes Rs. 247 on account of Revenue stores.

A:	EASTERN BENGAL RAILWAY COMPANY.	Miles open
		Ranaghat Section 201
Bengal Contral 1	Railway Approximate Return of Traffic for last 14 days of June 1883.	Dum-Dum , 141

			Ru.	Α.	p.	Mps.	0.	Ro.	A.	P.	Ra	. 4.	P.	Ra.	Α.	P.	1		
Total traffic for the week- kanagiat Section	411	66,01 13 330	1.747 1,520			86,407 421	0	847 B	0	0	1:		0 0	2,10 1,85	7 0	0 0	800 1,193)	972	1,163
Or per min of railway— Ranaghat Section Dum Dum do. Por previous weeks of half-yea	odl	204 065	84 128	3 5	7	1,754		18	11 9	7	1		0	10	1 8 D 15	8 8		10100	*****
Dom-Dum Go. (11)	***	65,820 1,86,212	10,703	0	0	8,22,960 24,044		0,858 21 s		0	196 105		0	26,80 11,06		0	B,663 6,1013	8,194 2.63	13,561
Rolal for half-year Rannshat Section Dum-Dum do. (12)	411	71,611 109,542	21,400 12,581			5,5%,676 26,463		7,205	0	0	209		0	28,91 12,92			0.253 7,6951	8,770 Chal	18,073 7,565
Total of both Sections	***	241,163	84,080	0	()	6,88,141	0	7,497	0	0	320	3 0	0	41,83	3 (0	13,8814	9,"661	22.015

Rongal Central Radway Approximate Return of Traffic for week ended 7th July 1883.

	COACHI	KG TRAPPIC.	MERCHANDISE A		Other earnings	Total earnings.	TOTAL T	RAIN-MILES	BUN.
- ·	Number of Passenters	Counting receipts.	Weight carried,	Receipts.	(estimated.)	tom was assign.	Coaching.	Merchag-	Total
		Ru, A, P.	Mps. s.	Rs. A. P.	Re. A. P.	Ra. A. P.			
Total traffic for the work— Ramas int Section Dam thim Or per relic of rathway—	2,7-48 7,611	748 0 0 814 0 0	18.746 0 482 0	100 0 0 87 0 0	11 0 0 10 0 0	864 0 0 861 0 0	277 à 669 à	8094	581 1986
Ranachat Section Dum-Dum Trestons weeks of half-year-	409	85 12 31 67 1 11	908 18 31 20	4 13 1 2 p 7	0 8 6 0 11 8	61 8 6 60 6 P	000: sended	*** .,	*****
Dun-Dum			*****	******	110000	*** 100	*****	*****	*****
Banachat Section	2,748	748 0 0 814 0 0	18.745 0 402 0	100 0 0 37 0 0	11 0 0 10 0 0	861 0 0	2772 8802	80% 07	681 626
"Notal of both Sections	0,764	1,557 0 0	10,197 0	157 0 0	21 0 0	1,715 0 0	837	8701	1,307

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED. Weekly Statement of Traffic Receipts.

The latest return	Length	RECEIPTS FOR	MREK BNDIRG	TOTAL RECEIPTS B	HOM 187 JAPUARY	Total increase		Percentage
Pecarved.	opon,	10th June 1982.	9th Juno 1883,	To 10th June 1882.	To 9th June 1883.	in 1888.	Total decrease in 1888.	increase,
th July 1888	250	Rs. A. P. 4,073 10 19	Ra. A. P. 10,881 6 10	Rs. A. P. 1,51,048 15 G	Ra. A. P. 1,64,095 9 11	Ra. A. P. 13,049 10 5	Ra. A. P.	+ 8\$

Calcutta, the 4th July 1883.

GILLANDERS, ARBUTHNOT & Co., Agenta.





SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JULY 25, 1883.

OFFICIAL PAPERS.

Non-Subscribers to the Gazerre may receive the Supplement separately on payment of Six Rupess per unnum if delivered in Calcutta, or Twelve Rupess if sent by Post.

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RESOLUTION ON THE ADMINISTRATION REPORT OF THE COMMISSIONERS FOR MAKING IMPROVEMENTS IN THE PORT OF CALOUTTA FOR THE YEAR 1882-83.

GENERAL DEPARTMENT-MARINE-CALCUTTA PORT TRUST.

Calcutta, the 24th July 1883.
RESOLUTION.

READ-

The Administration Report of the Commissioners for making Improvements in the Port of Calcutta for the year 1882-83.

The usual statement of the liabilities and assets of the Trust are furnished at the beginning of the Report, but the total amount of the debt has not been correctly shown. The debt due on account of the debenture loan of 1881 is obviously the full amount of the loan, and not that amount minus the contributions to the sinking fund established for its liquidation, inasmuch as the sinking fund has been credited as an asset of the Trust. The sinking fund rightly appears in the statement of assets, and credit should not be taken for it in the debt statement also. Subject to this correction, the figures of the report show that the Port Trust commenced the year with a total debt of Rs. 79,27,830, consisting of Rs. 51,62,830 due to Government on account of the consolidated repayable debt, of Rs. 17,65,000, the non-payable book-debt, and of Rs. 10,00,000, the debenture loan raised in 1881. During the year the consolidated debt was reduced by the fixed annual payment on account of sinking fund, but another loan of 20 lakhs was contracted for new works, of which

Rs. 12,25,000 were actually received by the Commissioners before the 31st March, and the total debt on that date stood thus—

			118.
Consolidated repayable deht	due to Gove	ernment	 50,67,967
Port book debt not repayable			 17,65,000
Debenture loan of 1881		***	 10,00,000
Due on debenture loan of 188	33	* * *	 12,25,000
		Total	 90,57,967

The assets of the Trust, on the other hand, exclusive of the value of the foreshore and Strand Bank lands, which the Commissioners received free of cost from the Government in 1870, amounted on the same date to Rs. 1,47,28,018. This sum represented the value, according to capital expended, of the Jetties, Wharves, Tramway, Moorings, Ships, Boats and other property belonging to the Trust, and the investments of the Jetty Reserve, the Jetty Insurance, the Port Reserve, the Depreciation and the Debenture Loan Sinking Funds. The addition made to the value of all the Trust property during the

year amounted to Rs. 12,94,412.

2. After opening with the account of the present financial condition of the Trust summarised in the last paragraph, the Report proceeds to mention the various works in progress during the year, and to describe the working of the several branches into which the management of the Port is divided, but it furnishes no review of the total income and expenditure of the year, either on revenue or capital account, and the general financial results of the twelve months' administration can only be gathered by reference to the figures given in the various sections or in the appendices. A statement of the total income and expenditure of the year, on both revenue and capital accounts, with such explanatory remarks as may be necessary, would, the Lieutenant-Governor thinks, add to the completeness of the report, and he hopes that this will find a place in future reports. For the past year it appears that the total receipts on capital account, inclusive of a balance of Rs. 6,53,199 from the previous year, were Rs. 39,25,042, and that the expenditure amounted to Rs. 29,09,862, leaving a balance of Rs. 10,15,180. The revenue accounts show a total income of Rs. 31,82,162, inclusive of a balance of Rs. 6,71,018 at the commencement of the year, against a total expenditure of Rs. 27,45,523, a sum of Rs. 4,36,639

being thus left in hand at the end of the year.

3. The expenditure on new works during the year amounted to Rs. 13,29,626, of which the Jetties absorbed Rs. 5,31,914, the Inland Vessels' Wharves Rs. 43,135, the Tramway Rs. 1,95,942, the Howrah foreshore road Rs. 96,374, the reconstruction of the riverside Press-house, burnt down in February 1-82, Rs. 1,41,899, new vessels for the Port approaches Rs. 2,46,292, and miscellaneous works Rs. 74,070. Of the outlay on the Jetties, 43 lakhs were expended on the extension of the jetty embankment, the building of new warehouses and the provision of additional engines and boilers for working the hydraulic cranes. The expenditure on the Inland Vessels' Wharves was mainly incurred for the construction of timber jetties for two Mills situated on the bank, and that on the Transway for fresh rolling-stock and extensions of the lines and sidings. The new vessels purchased for the Port approaches were a steamer, costing Rs. 2,30,181, required for service at the Sandheads and for the River Survey, and a steam launch. The construction of the Howrah foreshore road is advancing, but progress has been a good deal impeded by the failure of contractors to carry out their engagements, and by the difficulty of getting the occupiers of the lands taken up to remove and allow work to proceed. The section of the road between the Seebpore ghât road and Shalimar point, and an extension of 1,500 feet to Tateepara ghat road, have now been completed, and three out of the four timber depots which formed part of the design of the former portion have been rented out and occupied by timber merchants. Among other works, the only one calling for notice is the reclamation of a strip of low ground at Kasipore which has been undertaken to provide for an extension of the Tramway. As surplus land which may be rented to private persons will be available after provision for the requirements of the Tramway, the work is likely to prove remunerative.

4. The total Jetty receipts during the year were higher than those of any previous year, except 1677-74, when unusual activity prevailed in the grain traffic on account of the Madras famine. It is satisfactory to notice that the increase has taken place entirely on account of the larger quantity of goods shipped and landed, and in spite of the reduction of the landing charges on piece-goods and twist to 4 annas per bale as compared with 4½ and 5 annas charged before the 1st April 1882. The total income for the year amounted to Rs. 7,74,230 against Rs. 7,68,047 in 1881-82, and the expenditure to Rs. 6,44,032 against Rs. 5,47,861, leaving a net income of Rs. 1,30,198 as compared with Rs. 2,20,186 in 1881-82. The increase of expenditure in the past year was mainly due to the payment of a far larger contribution than in the previous year from this head of revenue to the Port approaches, the contribution being needed to make up for the reduction of port dues from three annas to one anna per ton, which came into operation from the commencement of the year. The extent to which the Jetties have been used in the past three years is shewn in the following statement:—

	Pau	IOD.		Number of jetties.	Number of venuels accommodated,	Registered not bon- nage.	Total number of days occupied at all jetties.	Total amount contri- buted by ressels for use of jettles.	Average length of slay of jettles.	Average number of days each jetty was at work throughout the year.	Average amount paid by each vessel for use of jetties.	Total jetty receipts from imports and exports,	Average per vessel.	Average tonnage of vescela,
1880-81 1851-82 1892-85	440	***	***	 8	193 212 199	324,187 361,036 376,907	1,982 2,018 2,161	Ra. 78,762 76,465 77,672	Days. 10'2 9'9	249 269 270	Ra. 882 872 390	Rs. 7,14,189 7,53,071 7,68,243	Ra 3,700 3,552	1,690 1,706 1,889

Of the total income of the past year Rs. 6,63,162 were contributed by imports and only Rs. 95,121 by exports. The balance consisted of miscellaneous receipts. Notwithstanding the increase in the quantity of goods shipped and landed, the removal and warehousing charges fell off by nearly Rs. 20,000, the loss being attributable to the greater promptitude with which goods can now be removed, owing to the abolition of the customs duties. This is a clear gain to the mercantile community.

The floating 30-ton crane was under steam for 155 days of the year and earned Rs. 24,256, or about Rs. 4,000 more than in the previous year. The expenditure amounted to Rs. 12,661, and a net surplus of Rs. 11,595 was obtained.

5. As in the case of the Jetties, the receipts at the Inland Vessels' Wharves, exclusive of the income from the Tramway, were the largest realised in any year except 1877-78, amounting to ks. 4.07,133 against Rs. 3,81,937 in the previous year. The closing of the Chitpore Lock of the Circular Canals, throughout the year, which caused a larger number of boats to resort to the wharves, doubtless contributed a good deal to this result. The expenditure was, however, largely increased, chiefly in consequence of a contribution of Rs. 90,000 to the Port approaches as compared with only Rs. 38,507 in 1881-82, and the net revenue accordingly amounted to only Rs. 1,11,333 against Rs. 1,58,007.

6. A decline of over Rs. 10,000 in the receipts from the Strand Bank lands is accounted for by the destruction by fire of the Commissioners' riverside press in February 1882, which necessitated the grant of considerable remissions of rent to the tenants while the press was under reconstruction. The total income amounted to Rs. 1,47,089 against Rs 1,57,472 in the previous year, and the net revenue, after payment of all charges, was Rs. 25,192 against Rs. 45,913.

7. An increase in the number of vessels visiting the Port during the year caused a considerable addition to the income of the Harbour Masters' Department, which was further swelled by unusually high receipts under the head of "Wreck and Anchor," and by the realization, for the first time, of fees for the services of the Engineer-Surveyor, who arrived from England in June 1882, and is now attached to the staff of the Port Commissioners. The Wreck and Anchor receipts included payments on account of the wreck Ellen Stuart and of the American ship Valiant, which caught fire and was stranded, but was subsequently floated and discharged by the assistance of the Harbour Masters'

Department. The total income from all sources was Rs. 5,97,873 against Rs. 4,81,872 in 1881-82; but the expenditure also increased from Rs. 4,61,468 to Rs. 5,57,812, and the net revenue thus amounted to only Rs. 10,061 against Rs. 20,404 in the previous year. Larger payments on account of fees earned by the Harbour Masters, a charge of Rs. 12,484 for the salary and passage money of the Engineer-Surveyor, and a contribution of Rs. 98,000 to the Port approaches, account for the excess in the expenditure of the year.

8. The increase which has taken place in the number and tonnage of vessels frequenting the Port within the past five years is shewn in the following statement. Dhoonies, country craft, inland steamers, flats and boats are not

included.

					ARRIV	TALS.								DEPA	RTURES.			
	1	Sumb	er.	Gro	s tonnag	ъ.	N	et tonna	ge.	1	Num	ber.	Gr	oms tomin	ige.	P	fet	0.
YRARS.	Steamers.	Saffing vessels,	Total,	Steamers.	Sailing vennels.	Total.	Steamers.	Sailing vesacla.	Total,	Steamers.	Sailing vessels.	fotal.	Steamers,	Sailing vessels.	Total.	Stamers.	Ruiling vossels.	Total.
1878-79 1879-80 1880-81 1881-82	400 442 506 601 616	478 454 478 478 532	967 896 184 1,074 1,151	806,083 848,664 1,000,082 1,243,680 1,342,213	531.857 567.416 570.817 664,335 £29,074	1,450,789 1,415,979 1,579,848 1,608,995 1,982,157	583,585 551,872 668,213 829,983 .898,580	651,141	1,115,892 1,103,013 1,220,546 1,377,380 1,510,344	510 597	505 501	1,040 895 1,015 1,058 1,141	926,956 845,010 1,014,483 1,242,441 1,845,108	616,788 511,623	1,480,048 1,120,441 1,681,271 1,774,084 1,970,167	8 64,660		1,165,8 1,109,7 1,265,7 1,547,8 1,504 4

It will be observed that, while the number of sailing vessels which arrived in each of these years has remained almost stationary, except in the past year, when there was an unusual increase, the number of steamers shews a considerable and steady rise. Of the steamers arriving in the past year 208, with an average tonnage of 2,862 tons, came from European ports vid the Suez Canal, while in 1870-71 there were only 51 such arrivals with an average tonnage of 1,598 tons.

The development of the shipping trade is further exhibited in the following interesting statement, which goes back to the commencement of the present

century :-

Year.					Number.	Tonnage.
1801				900	224	86,336
1811			0 0 0		240	97,686
1821			• • •		271	112,729
1831					256	96,439
1840	4 0 4			104	.612	208,000
1845		0.0.5			688	255,000
1550	• • •				876	869,000
1855		•••			1,097	647,581
1859-60					814	590,631
1864-65	•••		4 0 E m		1,206	997,756
1869-70	• • •		***		806	757,208
1874-75					927	1,250,604
1579-80	• • •				8 6	1,415,979
1880-h1			000		9-4	1,579,868
1881-82			000		1,074	1,808,905
1889-83					1,151	1,982,187
_					,	

9. Ten casualties occurred to ships while in charge of Harbour Masters during the year, fault being found with these officers in three cases, but in no instance was the damage done of a very serious nature. The percentage of accidents was, however, somewhat higher than in the preceding year, being '86 against '65.

10. The fire engine *Hooghly* was fortunately less frequently required than in the previous year, when several large and destructive fires occurred in the Port and along the banks of the river. It was called out ten times, but was actually used in only six cases, in five of which it was able to render useful service. The most serious of the fires broke out at the Camperdown Jute Press and the Chitpore Hydraulic Press, causing much loss at both places.

The dredger was employed on 181 days of the year at a net expenditure of Rs. 23,035, the average cost of every 1,000 cubic feet dredged being Rs 18:33. The Lieutenant-Governor observes from Appendix A to the report that all the

Master, and from Appendix B that the Port Approaches have been made the subject of careful examination by Lieutenant Petley. The report by this officer shows that a great deal of good work has been turned out in the charts and tracings published and issued to Port Officers and Pilots. To make this portion of the report complete, some information is needed regarding the portion of the river forming the port itself. Many works of importance are being executed on both banks, and it would seem desirable that the effect (if any) which these works have on the river should be recorded and reported for the information of Government. The Lieutenant-Governor would direct the attention of the Commissioners to the subject, and hopes that it may be noticed in future reports.

11. The number of cargo and passenger boats surveyed, registered, and

licensed, and of manjees licensed, was as follows:-

				1882-83.	1881-32
Cargo	boats		 	5,942	5,643
Passenge			 	2,148	2,145
Manjees	licensed	0 0 0	 	9,431	8,527

A reduction of one-fourth of the rates of fees charged to these boats was sanctioned by the Government during the year, and has since taken effect.

The work done by the Engineer-Surveyor is stated in an appendix to the report. The substance of this statement, and of the reports of the Harbour Master and of the Deputy Conservator of the Port Approaches, might with advantage be summarised in the report in future. The number of vessels of all kinds surveyed during the year was 131, the total number of visits paid to them by the Surveyor was 398, and the fees realised were Rs. 3,970. In addition to this work, the Surveyor measured 11 vessels for tonnage; surveyed and passed the condensers of 16 emigrant ships; surveyed and measured for certificates 48 native passenger steamers, and held miscellaneous surveys on 16 vessels. His total earnings, however, fell far short of the expenditure incurred by the Port Commissioners in carrying out the surveys. Various questions connected with this branch of their administration have lately been brought to the notice of Government by the Commissioners, in reporting on the two Bills now before the Legislature for regulating surveys of inland steam-vessels and sea-going steam-ships respectively, and their views will be communicated to the Government of India.

12. The working of the Commissioners' Tramway appears to have been entirely satisfactory during the year. The receipts amounted to Rs. 1,60,549, against Rs. 1,35,812 in 1881-82, and the expenditure to Rs. 1,16,091, against Rs. 97,672, and the net revenue thus rose from Rs. 38,140 to Rs. 44,458. The quantity of goods received and despatched through to the Eastern Bengal Railway reached 209,430 tons, and 15,201 wagons were also loaded and despatched on local traffic. The corresponding figures for the provious year were 188,030 tons and 11,448 wagons.

13. The income and expenditure on account of the Port approaches, inclusive of the River Survey, Buoying, and Lighting establishments, were as

follow:-

Ing me.			Expenditure.		
district Antique		Rs.			Rs.
Receipts from port dues		98,817	Salaries		1,86,939
Contribution from Port Trust	re-	3,07,500	Working expenses	+ 0 0	1,38,335
venue.			Repairs		99,102
Other receipts		17,252	Other charges		11,993
Total		4,23,569	Total		4,36,369
manufacture and the second					

The only direct income available to meet the expenditure for the Port approaches is derived from the port dues, and these, owing to the reduction of the rate from three annas to one anna, now yield less than a lakh of rupees per annum, while the expenditure approaches 4½ lakhs. The balance has accordingly to be supplied by contributions from the receipts of the Port proper.

14. The usual surveys of the river channels were carried out during the year, and a revenue survey party was also employed on the bank, for the purpose of connecting the permanent marks of the river survey with the great trigonometrical stations, and filling in the shore detail between Calcutta and Saugor. Some important changes were noticed in two or three of the channels leading to the Port, but no obstruction was apparently caused to navigation. The depth of water over the James and Mary bar is reported to have been unusually

low in February and March last, owing to very weak freshets.

The light-houses at Saugor, Cowcolly, and False Point appear to have been efficiently maintained during the year, and the six light-vessels were all brought up to town and repaired. An extensive encroachment of the Middleton Spit in the Saugor Roads rendered the placing of a light-ship on the spot advisable, and this was promptly done by the Commissioners. Special distinguishing marks for the day have also been introduced for the different light-vessels, and machinery has been ordered from home for the purpose of giving to each of the three outer lights a distinctive feature, which would render its immediate identification possible at night. The present system of burning blue lights and rockets at various intervals causes delay in the identification of the lights, unless they are first sighted shortly before the rockets or blue-lights are used. The whole question of lighting the mouth of the river has recently formed the subject of a special report by the Commissioners.

The refuge houses on the sea face of the Sunderbuns, the duty of maintaining which has been accepted by the Commissioners, were visited three times in On each occasion it was found that the provisions and the course of the year. clothing supplied for the needs of ship-wrecked seamen had been systematically stolen, and the trap-doors even had been taken off or destroyed. Exception appears to be made by the depredators as regards potted and tinned meats, which they do not affect probably from ignorance of their uses and inability to open the tins. It may be as well experimentally to adopt the suggestion of the Deputy Conservator that the food supplies should be limited to these articles. The more frequent inspection of the places of refuge, which the two new steamers to be imported from England will facilitate, may tend to the better security of the goods and possibly to the detection of the offenders.

15. In the last section of the report, the Commissioners notice under the head of "Miscellaneous subjects" various important questions which came under their consideration during the year. The Diamond Harbour dock scheme was referred to them for opinion in communication with the Chamber of Commerce, and a joint Committee, including three members of the Chamber, has been appointed by them, and is now deliberating on the measures practicable for extending the accommodation of the port. The Lieutenant-Governor recognizes that some delay must occur before matured proposals can be submitted on so large a subject, but its great importance in the interests of the export trade of the port and the pressure on the East Indian Railway Company demands early attention. The Lieutenant-Governor notes that the Commissioners recognise the urgent necessity of increased facilities for meeting the rapidly growing traffic "cither in Calcutta itself or elsewhere."

The opposition with which the Commissioners' proposal to construct additional warehouses within the Jetty enclosure was received by the Calcutta Municipality, the British Indian Association, and other public and private bodies, was noticed in the Resolution on the last report. The warehouses were eventually sanctioned by the Government, and are now in course of construction. It is expected that one will be shortly finished, and

the other before the close of the current year.

Objection was similarly taken to the erection of a tea warehouse by the Commissioners, but the Lieutenant-Governor being satisfied that the project would be of great benefit to the tea trade generally, sanctioned the introduction of a short Act in the last session of the Bengal Council to enable the Commissioners to undertake the work, and the measure has since received the assent of His Excellency the Governor-General in Council. The project will now be undertaken.

17. The experiment of opening the Jetty gates between 8 and 10 A.M. to facilitate the removal of goods, which was introduced at the instance of the Chamber of Commerce, having proved a failure, owing to the unwillingness of the agents of consignees and shippers to commence work before 10 o'clock, the Commissioners have reverted to the latter opening hour. They were quite justified, in the Lieutenant-Governor's opinion, in abandoning an arrangement of which no use was made.

18. An important step taken by the Commissioners during the year, with sanction of the Government, was the purchase of the Calcutta Docking Company's premises situated immediately to the north of the Hooghly Bridge. The possession of a dock for the exclusive use of the Commissioners' vessels and boats had become an urgent necessity, especially since the transfer to the Commissioners' charge of the Port approaches, with the light-ships and the vessels of the River Survey. At the same time, in view of the limited docking accommodation existing in Calcutta, the Lieutenant-Governor approves of the intimation conveyed to the Chamber of Commerce that if at any time hereafter the dock is unoccupied by vessels belonging to the Commissioners, and an outside vessel is in urgent need of docking and cannot find accommodation elsewhere in the Port, the Commissioners would be disposed to assist the shipping of the Port by making their dock available. The opening of the dock to the public under such circumstances could give no reasonable ground for complaint that the Commissioners were entering into a competition with private docks.

19. In reply to a reference from the Government, regarding the improvement of the means of conveyance on the river for persons residing on the banks and having business in Calcutta, the Commissioners reported during the year that, in their opinion, the establishment of a service of small steamers, to ply at low fares between Calcutta and places in the neighbourhood, would probably prove a remunerative undertaking. The starting of such a service appeared to the Lieutenant-Governor to be beyond the legitimate aphère of Government enterprise, but he is glad to learn that it has since been undertaken by a private firm, and is likely to be soon established with every prospect of success. If this should result, the extension of the scheme to the

reaches of the river above the bridge will probably follow.

20. The Lieutenant-Governor desires to thank the Commissioners for their efficient administration during the year, and he anticipates that they will be able to render valuable co-operation in the large projects under consideration for the extension of the commercial interests of the Port.

By order of the Lieutenant-Governor of Bengal,

A. P. MACDONNELL,

Offg. Secretary to the Government of Bengal.

SPECIAL SCHOLARSHIPS CREATED BY THE GOVERNMENT OF BENGAL AT THE ROYAL AGRICULTURAL COLLEGE, CIRENCESTER.

The following correspondence is published for general information:-No. 87 (Revenue), dated India Office, London, the 24th May 1883.

TO HIS EXCELLENCY THE MOST HONOURABLE THE GOVERNOR-GENERAL OF INDIA IN COUNCIL.

My Lord Marquis—Referring to your Excellency's Financial letter No. 198 of 22nd July 1881 (Accounts and Finance), I have to inform you that Bubu Ambika Charan Sen, Ma., and Syud Sakhawut Hossein, B.A., the first scholars selected for the agricultural scholarships created in 1880 by the Bengal Government, have completed their course at the Circucester College and have obtained the diploma with very high honours. From the Memorandum by Mr. Fitzgerald, April correspondence noted in the margin, it will be observed

Memorandum by Mr. 27th 1888.

Lotter from the Principal, Cironesster College, April 20th 1888.

Testimonial by the Professor of Chemistry, April 20th.

utilising the qualifications of these gentlemen.

MEMORANDUM.

I HAVE the honour to forward herewith, for submission to the Secretary of State, a report from the Principal of the Royal Agricultural College at Circucester, upon the two Bengal Government students, Ambica Charan Sen, M.A., and Syud Sakhawut Hossein, B.A., who obtained their diploma at the College during the past week.

I need not refer in detail to the different points mentioned in the report, but it is worthy of remark that, while the two Bengal students passed out 1st and 3rd, Mr. Ozanne, of the Bombay Civil Service, Director of the new Agricultural Department in that Presidency, being second, their qualifications as shewn by the examinations were very different. Mr. Sen proved himself to be a scientific agricultural chemist and analyst of no mean order. Mr. Hossein, on the other hand, obtained his high position on the list from his practical knowledge of farm and stock management. I cannot imagine a happier omen for the success of the experiment so wisely instituted by the Government of Bengal, and for the future of agriculture in India.

I was at Circnester on the occasion of the diplomas being conferred, and may be permitted to add, on the authority of the Professor of Botany, that Mr. Sen would have obtained distinction in that branch of study also had he taken it up as an extra subject. He was urged to do so, and was only prevented by his natural modesty and diffidence from entering for a subject which he considered too wide for a man of his age and experience. I was also greatly gratified at the relations which I was told had existed between Mr. Ozanne and Mr. Sen. They had worked together in the laboratory throughout, conducting their experiments in common, with the result of a mutual respect for each other's capabilities

and enthusiasm in the investigations they were pursuing.

The Secretary of State will further be pleased to learn that, in the opinion of the College authorities, Mr. Sen's and Mr. Hossein's success was not due to mere cram for an examination, but that both men have a sound knowledge of the subjects in which they passed. The importance to Government of having available in India highly qualified men for employment in the new Agricultural Departments is shown by the late correspondence with reference to the appointment of Mr. Hill to the Professorship of Agriculture at the proposed College at Campore. In the Government of India despatch of 7th November 1882, it is explained, as the reason for the selection of Mr. Hill, that Mr. Buck, when in England, had made enquiries at Rathansstead and elsewhere for a fit person to be "employed under the Government of India as Agricultural Chemist and Examiner of Soils, but being satisfied that no person of the required attainments was available, left the selection to Sir James Caird." The reference to Sir James Caird was presumably with a like result, as enquiries were afterwards instituted in India, but "no one was found until Mr. Hill was independently recommended through the Local Department of the North-West Provinces as an excellent official for the instruction of Natives in science connected with Agriculture."

The rate of pay had then to be fixed which, according to the despatch of the 26th of May (there being nobody else available) was done, not upon the value to Government of the work to be performed, but in view of promotion he (Mr. Hill) "might expect to obtain in his present department"

This difficulty need not again arise, as in Mr. Sen and Mr. Hossein Government have available for employment at a much lower rate of salary men as well, or according to their respective certificates and the tests they have gone through, better qualified for the particular work required Nor in the future will the selection be restricted to these two men, as there are already five more Government students at the College, who, according to the class lists, are likely to prove efficient and highly qualified officers, if not quite as distinguished as Mr. Sen. Should the present policy be pursued, even without extension, two more will be added to the number in each year.

G. S. V. FITZGERALD.

Dated 20th April 1883.

From -John B. McClellan, Esq., M.A., Principal, Royal Agricultural College, Circnester,

To-G. S V. FITZGERALD, Esq., India Office.

I HAVE the honour specially to report that the first two Bengal students sent to this College with Bengal Government scholarships, viz. Ambica Charan Sen, M.A., and Syud Sakhawut Hossein, B.A., have now concluded their course at the College, and passed the final examination for the College Diploma, which was conferred upon them on the 18th

instant, the last day of spring session.

Both students have throughout their course exhibited exemplary diligence and conduct, and obtained a well-deserved popularity among their English fellow students. The class lists of the College are evidence that they have uniformly obtained the highest places in their class examinations, and they have now obtained the diploma with very high honours. Mr. Sen obtaining 1,670 marks out of a maximum of 1.800, and Mr. Hossein 1,595, the civilian, Mr. E. C. Ozanne (appointed Director of Agriculture for Bombay), coming between with 1,602, notwithstanding that the examination is now more thorough and severe than in former years. Mr. Sen's marks are the highest ever obtained at the College.

The Final Examination for the diploma being mainly in all branches of Agriculture and Agricultural Chemistry (embracing the practical department of analysis, soils, manures, feeding stuffs, &c, as well as other matters), the marks above recorded testify to the high qualifications of both students, and the valuable results which have accrued and are likely

further to accrue from the project of the Bengal Government.

I enclose a special testimonial from the Professor of Chemistry, and have much pleasure in begging permission to recommend both students to the favourable notice of the Government for Agricultural employment. Mr. Sen, if the Government approve, for educational work, and Mr. Hossein for State management or direction. I have every confidence that they will prove very useful servants.

Chemical Laboratory, Royal Agricultural College, Cirencester, 20th April 1883.

I have much pleasure in testifying that Mr. A Charan Sen and Mr. Syud S. Hossein have, during the last two years, studied practical chemistry in this laboratory. They are both of them exceedingly careful, conscientious and paicstaking students, and have acquired considerable manipulatory skill both in qualitative and quantitive analysis, this in conjunction with their knowledge of general and of agricultural chemistry (clear evidence of which is given in the positions they have attained in their several classes in the College curriculum) renders them fully competent to undertake the analysis of soils, manures, and agricultural produce generally, and to draw trustworthy conclusions from such analysis. Mr. Sen is specially competent and has shown much enthusiasm and zeal in his study of chemistry while here. He came with a good grounding in theoretical and inorganic chemistry, and he is now spending his remaining time in England in increasing his experience by a special course of instruction in water and gas analysis at Owen's College.

EDWARD KINCH, F. 1. C., F. C. S., &c., Professor of Chemistry.

SCHOLARSHIPS AND PRIZES FOR MAHOMEDAN STUDENTS.

GENERAL DEPARTMENT-Education.

Calcutta, the 24th July 1883.

In continuation of the Resolution published in the Calcutta Gasette of the 27th June 1883, the following list of subscriptions to the Ripon Scholarship Fund, founded by the National Mahomedan Association, is published for general information :-

				Rs.
Prince Mahomed Furrukh S	Shah, President,	National Maho	medan	
Association	***	• • •		1,000
Haji Noor Mahomed, Vice-I	President			1,000
		+ + 1		500
Nawab Welayet Ali Khan B	ahadoor, C.I.E.			400
Haji Abdulla Dugman	• • •			250
Haji Syed Sadiq Shustari	* 4 4			200
Moulvi Syed Amir Hossain	Khan Bahadoor,	Vice-President		100
Mr. Amcer Ali		0 0 0		100
Hon'ble Moonshi Mahomed	Yusuf			100
Syed Tajjummul Hossain Kh	an			100
Yusuf Hossain Khan	* * *	• • •		100
Other subscriptions	***			560
		Total		4,410

A. P. MACDONNELL, Offg. Secretary to the Govt. of Bengal.

ANNUAL ADMINISTRATION REPORT OF THE NARAINGUNGE MUNICIPALITY FOR THE YEAR 1882-83.

No. 469L, dated Dacea, the 25th June 1883.

From-N. S. ALEXANDER, Esq., Officiating Commissioner of the Dacca Division, To-The Secretary to the Government of Bengal, Municipal Department.

I HAVE the honour to submit herewith in original the Annual Administration Reports of the Dacca and Naraingunge first class municipalities for the year 1882 83, with enclosures, and copies of the Magistrates' letters forwarding them, and to make the following remarks with regard to each. The Naraingunge Municipality has now for the first time been brought under class I.

NARAINGUNGE MUNICIPALITY.

Municipal Report. Heading III,

Heading VII.

11. The explanation as to the increase in taxation given in this paragraph is not very clear. The Magistrate has been requested to state the matter more clearly.

12. The matter referred to in this paragraph (daily despatch service) seems hardly to be one coming within the scope of a report on the affairs of the municipality. It has

been pointed out that it should be made (if at all) the subject of a special reference and report.

Heading VII-Conservancy.

13. Act VI referred to in this section is one of the Bengal Council (the Latrine Act).

It has been so recently introduced that the results of its working cannot as yet be reported on.

Heading VII-Transfer of forries to municipalities.

14. An application was, since the close of the year, made to Government, but, pending the enactment of the new law relating to municipal ities, the consideration of the application has been post-poned (vide Government No. 2661—M, dated 4th May 1883.

15. During the past nine months very great improvements have been effected. I who have known Naraingunge during the past 15 years hardly recognized the place when I visited it last in January 1883; in the place of a small dirty village, buried in dense, matted jungle, full of filthy ponds, with narrow, muddy foot-ways, it is now open in all directions down to the riverside, with broad roads intersecting it in all directions; many fine buildings have been

and are being erected; solid quays and landing-places are being constructed, and the whole place has the air of a thriving trading centre with rapidly increasing business.

16. The water of the Lakhya is specially pure and

wholesome.

No. 1273, dated Dacea, the 5th June 1883.

From—A. W. Paul, Esq., Offg. Magistrate of Dacca, To—The Commissioner of the Dacca Division.

I HAVE the honour to submit herewith a report on the administration of the Naraingunge Municipality for 1882-83, in accordance with the instructions contained in Government Circulars No. 26, dated 26th November 1881, and No. 10 of the 4th April 1882, together with a certificate from the Agent of the Bank about the closing balance of the municipality as required by the Government Circular No. 4494, dated 28th September 1878. The disorepancy between the Bank and the Municipal accounts has been explained in paragraph 2 of the Chairman's letter No. 30, dated 27th ultimo.

2. Forms I and II, showing income and expenditure of the municipality, will follow.

No. 30, dated Naraingunge, the 27th April 1883.

From - F. Grant, Esq., Chairman of the Municipality, Naraingunge, To-The Magistrate of Dacca.

I have the honour to submit herewith a report on the administration of the Naraih-gunge Municipality for the year 1882-83.

2. A certificate of balance, as required by the Government Circular No. 4494 of the 28th September 1878, is herewith submitted. The discrepancy of Rs. 48-12 between the Bank and the Municipal accounts is owing to the amount having been realized on the 31st March and entered in the municipal account, but not remitted into the Bank.

I HEREBY certify that the balance at credit of the Chairman, Municipal Commissioners, Naraingunge, on the 31st March 1883, was rupees ten thousand seven hundred and sixtynine annas twelve and pies seven (Rs. 10,769-12-7) only.

R. T. HORSFORD,

Acting Agent.

BANK OF BENGAL, DACCA, The 19th April 1883

Paragraph 3, Circular No 10 .- The receipts during the year under report amounted to Rs. 17,152-9-5, as per details given below:-

Sourc	RA OF	INCOM	E.			For the year 18s1-52.	For the year 1882-83.	Increase.	Decrease.
						R. A. P.	Rs. A. P.	Rs. A. P.	R. a. 1
Tax collection Fines Pound collection Miccellaneous	44.	***		***	***	10,261 0 3 256 7 0 155 9 0 270 10 0	15,887 11 6 297 4 0 258 11 3 758 14 8	5,576 11 3 40 13 0 103 2 3 488 4 8	*****
Total and		4		Total		10,943 10 3	17,162 9 5	6,208 15 2	

Tax collection .- The tax levied during the year previous to that under review was on persons compying holdings under clause (a), section 77 of the Act. The increase of Rs. 5,576-11-3, as compared with the actual figure of the previous year, was effected by a careful assessment being made, and by the tax being levied under clause (b) of the said section, As example, the holding No. 128 used to pay a tax of Rs. 36 per annum under clause (a), while under clause (b) it has to pay Rs. 120 yearly.

Fines. - The increase under this head is due to higher fines having been imposed during the year.

Pound collection .- The reason of the increase under this head is due to more cattle having been impounded.

Miscellaneaus. - The increase under this head is owing to an increase of Rs. 50 in the rent paid by Messre. Ralli Brothers, Rs. 48 increase in fishing-fees, and Rs. 347 refunds from police, &c.

Expenditure. - The expenditure during the year amounted to Rs. 11,227-6-4 as shown below :-

ITEMS O	v Er	BEDIE	JRN.			For the year 1881-89.	For the year 1882-88.	Increase.	Decrease.
						Ro. A. P.	Rs. A. P.	Re. A. P.	Hs. A. P.
Office establishment			***	***	444	1.9'3 9 9	1,351 8 0	188 6 10	*** **
Conservancy	400			***	***	980 6 0	8, 49 5 0	2,888 G O	101 988
Police	0.00		5.00			2,985 0 0	211 10 8	417.744	2,713 5 8
Lighting		4.4	100	***	0.01	186 13 0	9.0 4 6	56 7 6	
ionstruction of roads	0.04		100	900	0 * 1	1,530 0 0	869 0 9	******	3,177 15
				684	991	148 0 0	48 0 0	110111	100 0
Natering roads Vater-supply		***		0.00	441	148 0 0 288 8 9			288 8 1
	+ 0 +	***		988	4	-00	661 0 6	601 6 6	
Prainage works		100		0.00	0.01	802 14 9	207 0 0		95 14
lopair of houses	000	110	4.817	000	* *	903 74 4	1,410 0 0	1,410 0 0	
Other public works			4 9 1	0.00	***	865 11 9	1,315 16 0	460 9 8	****
anitary and charitable	0.00	1.0.0	000	100	***		27 10 9	400 11 0	100 000
accination	***	4 0 0		0 8 0	101	44	40 10 4	188 0 0	18 11 9
ducation	0.00	* = 1		1:0:0	***	500 O O	778 0 0	8175 17 0	100 000
rinting charges	***	***		000	0.0 1	4 - 10 - 40 - 0.40		100 0 0 278 0 0	211.000
fiscellaneous	0 9 %	001	***	***		427 9 10	705 10 7	278 0 9	991 000
				Total		9,446 2 9	11,297 6 4	6,170 7 10	4.389 8 1

Office establishment.-The increase under this head is principally caused by Rs. 100 paid for audit.

Conservancy.- The conservancy establishment was appointed in July, and their pay causes the large increase under this head.

Police. - The amount shown under this head as expenditure appears as a credit under the head of "Miscellaneous," being part of the Rs. 347 referred to as refunds.

Lighting. - The increase under this head is due to the appointment of an extra lamplighter at Rs. 3 per month.

Construction of roads.—The amount shown for 1881-82 was spent for the construction of a new road, but this year no new road was made. The roads were repaired only at a cost of Rs. 352-0-9.

Watering roads.-The decrease under this head is owing to the number of bhisties having been less by two than in the previous year.

Water-supply. - The amount shown for 1881-32 was balance due for the construction of a pukka ghât at Lyall's Tank, and no expenditure under this head was incurred this year.

Drainage works. - The amount shown under this head in the year under report was spent for the construction of pukka side drains to the Nitaigunge and Bhugwangunge roads.

Repairs of houses.- The decrease under this head is due to less repairs being necessary this year.

Other public works. - The amount shown under this head was expended for the partial construction of a pukka burning ghat.

Sanitary and charitable. - The increase under this head is due to the establishment of a branch dispensary at Madangunge.

Vaccination .- During the year 1881-82 a vaccinator was employed for three-and a half months, while during this year he was employed only for two-and-a-half months, and hence the decrease.

Education .- The reason of the increase under this head was owing to the increase of the subscriptions to the schools by Rs. 15 per month.

Printing charges.—Hitherto nothing had been expended under this head, but this year 100 was expended for printing forms, &c

Miscellaneous.—The gratuity of six months' pay given to a tehsildar was included in this head. The amount of Rs. 200 was spent for fees and other charges of the vakeels to defend the case against the municipality.

Paragraph 4, Circular 10.—The Municipal Committee consists of 15 Commissioners, viz, four official, including the Chairman, and nine non-official. Twelve meetings were held during the year, and the following table will show the attendance of the Commissioners at each of the meetings held :-

Mr. A. J. Fraser, Chairman. H. F. Wilson, Vice-Chairman. 4th April 1882 Baboo Bissesswar Dass. " Mahim Chunder Ganguli. Mr. A. J. Fraser. ,, H. F. Wilson. 26th May 1882 Baboo Bissesswar Dass.

	(Mr. A. J. Fraser.	0
	, G. A. Glascott.	
	Baboo Bissesswar Dass.	
22nd June 1882	, Gobinda Chunder Taluqdar.	
	34 41 37 41 (11 1	
	Mahim Chunder Ganguli.	
	,, Ram Krisna Pal.	
	Mr. A. J. Fraser.	
	Baboo Ram Krisna Pal.	
29th July 1882	,, Mahim (hunder Ganguli.	
	Muthum Noth Chan	
	Biseesswar Dass.	
	C , Dissessival Dass.	
	A T Theres	
	Mr. A. J. Fraser.	
45.1 0 . 1 4400	Baboo Bissesswar Dass.	
17th October 1882	,, Ram Krisna Pal.	
	,, Mathura Nath Ghosal.	
	, Kali Narain Sen.	
	(Mr. A. J. Fraser.	
	Baboo Bissesswar Dass.	
Ond N 1 1000		
2nd November 1882	, Madhub Lall Chowdhry.	
	,, Ram Krisna Pal.	
	,, Mathura Nath Ghosal.	
	(Mr A. J. Fraser.	
	, H F. Wilson.	
	G. A. Glasuott.	
5th December 1882	R. Sim.	
	Baboo Ram Krisna Pal.	
	,, Bissesswar Dass.	
	, Kali Narain Sen.	
	Mathura Nath Ghosal.	
	<i>"</i>	
	Mr. G. A. Glascott.	
	Baboo Madhub Lall Chowdhry.	
	T):	
2nd January 1883	,, Bissesswar Dass.	
	Ram Krisna Pal.	
	,, Kali Narain Sen.	
	Mathura Nath Ghosal.	
	Mr. G. A. Glascott.	
	H. F. Wilson.	
	R. Sim.	
104h Tanana 1000	d Baboo Bissesswar Dass.	
16th January 1883		
	" Kali Narain Sen.	
	" Mathura Nath Ghosal.	
	,, Ram Krisna Pal.	
	(Mr. G. A. Glascott.	
	H. F. Wilson.	
	R. Sim	
23rd January 1883	Baboo Mahim Chunder Ganguli.	
Lord January 1000	Diamana Dana	
	", Bissesswar Dass.	
	,, Mathura Nath Ghosal.	
	Gobinda Chunder Taluqdar.	
	Mr. A. W. Paul.	
	,, A.G. A. Glascott.	
	H. F. Wilson.	
	D Cim	
	I T Gaennoonnia.	
24th February 1883	W. B. Bestie, Executive Engin	Agr
	W. D. Desile, Executive Engin	
	Baboo Madhub Lall Chowdhry.	
	" Mahim Chunder Ganguli.	
	, Bissesswar Dass.	
	" Mathura Nath Ghosal.	
	HZ-	
	(Mr. F. Grant.	
	H. F. Wilson.	
004h Mr. 1000	R. Sim.	
20th March 1883	C. D. Geannocopulo.	
	Deba Dissession Dees	
	Baboo Bissesswar Dass.	

The elective system is not in force in this municipality.

No Ward Committee here. Paragraph 6, Circular 10.—There are five Honorary Magistrates. These sit in rotation with a Stipendiary Magistrate every first and third Monday for disposal of municipal cases. The number of cases brought to trial was 107; in these cases 191 persons were convicted and 4 acquitted. The amount of fines inflicted and realized was Rs. 296-4.

Paragraph 7, Circular 10 -The tax levied during the year was on the annual value of holdings under clause (h), section 77 of the Act, instead of clause (a) of the section as in the previous years. The assessment was revised in the month of February last. The increase of Rs. 5,576 to the income of the municipality was affected by this alteration or revision

made in the mode of assessment.

Paragraph 8, Circular 10.—The provisions of the Act regarding the taxing of carriages and of horses and other animals, and the registration of carts, are not in force in this municipality. The Act VI of 1878 was not in force during the year

Paragraph 9 .- No change or alteration of the municipal boundary was made during

Paragraph 10.-No grants from any provincial or local funds were made.

Circular No. 26 I.—The municipality was established on the 8th September 1876. II.—The population of the municipality taken at the last census was 12.508, but that census was taken in the month of April, when trade is almost at a stand-still. Had the census been taken at any time during the jute season, the figure would have been very different. Further, since the year 1881 a very large increase in the trade of this place has taken place, and a consequent increase in population.

III.—The gross income from all sources, from the date of establishment of the muni-

cipality to the end of the year 1882-83, was Rs. 75,925-13-11, including a balance of Rs. 4,157-12-6 from the previous year—

					Rs.	A.	11.
(11)	Direct taxation	• • •	***		69,225	15	Θ
(b)	Indirect ditto						
(c)	Miscellaneous	** ** **			2,545	1	11
			Total	* * *	71 771	1	5
Add	balance at the end of	1875-76			4,157	12	6
		Gran	i Total	***	75,928	13	11
				***	70,000		

The incidence of taxation last year was only 11 annas per head as against annas 20.595. This year the great increase is owing to the change in the form of taxation. Formerly the tax on holdings was in force. This form of taxation was most unjust, as it allowed the wealthy inhabitants to escape; and the present system of levying the tax on the annual value of holdings enables the Commissioners to relieve many poor and to collect from the rich their proper share of taxation. As an illustration of this, one European firm here paid under the holdings clause Rs. 221-4 annually, while under the valuation clause they pay Rs. 2,073. On a collection at the rate of 6 per cent., the incidence per head is calculated on the population as shown by last census, which, however, is quite erroneous—vide clause 11.

The average population cannot be under 17,000, which would make the incidence

of taxation annas 15,141 per head.

IV.—The gross expenditure was Rs. 65,110-5-2 at the end of March 1883-

							Rs.	A.	P.
(11)	Establishme	nt and co	ntingencies	(office,	collecti	iou,			
	&c.)	0.0 -		1.01			10,692	15	10
(6)	7 000	ablishment	(vaccinatio	m, &c.)			117	1	3
(c)	Public Wor	ks (latrine,	market an	d dispens	sary)		10,373	14	9
(d)	Public We	rks (gener	al roads, l	ighting.	water	ing			
	and burni	ng ghat		•••			22.334	3	6
(0	Repairs—(a)	roads, (b)	buildings				2,096	15	3
(1)	Education			446			3,398		0
(4)	Police		***			***	16,097	2	9
								0-10	-
				Total			65,110	5	4
Bal	lance on the	31st March	1	100		***	10,818	8	
			Grand	Total		W10 4	75,928	13	9
								-	Approved to

This large balance, carried over, is due to the non-completion of works budgetted for, the payment, on account of which will be made this year.

-No loans.

V1 .- The municipality possesses two tanks-one at Madangunge, the other at Naraingunge. The latter known as Lyall's Tank yields a rent of Rs. 250 per annum, the water

being taken by Messrs. Ralli Brothers for the use of the engines working in their press houses. A burning ghat is being constructed at Gog Char, a distance of about half a mile from the

town. The income annually derivable therefrom is estimated to be Rs. 100.

VII.—The town a few years ago consisted of about one mile of straggling houses on the western bank of the river Lakhya and a half mile on the eastern bank at Madangunge. It now extends a distance of two to two-and-a-half miles on the eastern bank, and three to three-and-a-half miles on the western bank, the river frontage on both sides being occupied by business premises. There are 13 hydraulic presses employed in baling jute for the English market. These during this last season have turned out 400,000 bales equal to 20 lakhs of There are two steam-presses and a large number of hand screws occupied in preparing bales for the Calcutta market, in addition to the trade done in jute in drums

There is a steam ginning factory and a large trade is done in ginning cotton by the

native churka in the surrounding districts, this place being the centre of the trade.

Instead of formerly having only a comparatively small steamer weekly, we have this past year had a daily despatch steamer, and an average of three large steamers weekly carrying jute and other produce to Calcutta, in addition to a large trade between this and Chittagong carried on in native craft.

Roughly estimating the trade as compared with that existing in 1872-73, it may be

set down as five times both in imports and exports.

The daily despatch service which was only begun this year is most useful to the commercial community, as it saves a day in replying to important letters, and enables them to get quickly anything urgently required, such as small pieces of machinery which, although of seemingly little importance in themselves, may stop the works of hundreds of men for days. I trust therefore the G vernment will urge on the Railway authorities the necessity for continuing this service to Naraingunge during the rains, as last year the steamer stopped

at Dacca to the great loss and inconvenience of the inhabitants of this place.

The most immediate requirement of this place is "conservancy;" the municipality at their own expense in the past year did a little, and sanction has been given to the introduction of Act VI (B.C.) of 1878. But owing to the spathy of the native inhabitants, and the obstructions of the zemindars, great delay is being caused in the introduction of the Act. Its 8,200 has been budgetted this year for the introduction of this Act. The excavations referred to in last year's report still exist, as they are more or less filled with night-soil which has been accumulating for years, they are simply hot-beds of disease. Immediately after Act VI (B.C.) of 1878 is in proper working order, a scheme for the cleansing and improving of these excavations will be considered by the Commissioners. Next to conservancy, "roads" are required. The large wide road known as the western road now nearing completion will, when carried to its natural termination at Shital Lakhya and joined to the old eastern road by cross-roads, supply the requirements of the town on the western bank of the river Lakhya for some time.

It is impossible, however, to lay out these cross-roads till the alterations caused by the construction of the Dacca and Mymeusingh Railway are completed. Roads on the eastern bank of the river do not yet exist, and they are much wanted. Plans and estimates will be prepared this year, and I trust the Government n ay make over the ferries to the municipality and enable the construction of a good road to be begun soon. During the year under review the Public Works Department have cleared away all the old ol-mills at Tan Bazar, and instead of this place being in a chronic state of disgusting filthiness, the land is being properly laid cut. A good dâk bungalow has been erected, and Government offices are being built. A portion of the eastern road has been straightened, widened and improved

generally.

Consequent on these alterations, three zemindars are erecting bazars, plans for which have been approved of by the Executive Engineer of the district and the municipality, and when these bazars are completed, they will be a great improvement to the town.

VIII.—Water is not supplied to the inhabitants, nor is it necessary, as the river Lakhya

runs through the town and supplies all its present requirements.

IX.—There are 19 sweepers under the supervision of a jemadar. At present we have eight night-soil carts and two open carts. The street sweepings are taken away every morning between 5 and 7 o'clock, and are despatched into the ditches far from the main roads and streets. For the year under review, there was no scavenging establishment employed with the exception of two domes, whose duty it was to throw away dead bodies or carcasses that might be washed on shore by the river.

(b). There are at present five public latrines. Two sweepers are told off to each, and

the jemadar or the head sweeper goes round every morning to see that they have been properly cleaned. They are cleaned twice a day, between 6 and 7 o'clock in the morning and 5 and 6 in the evening, and are maintained solely by the municipality. The night-soils are deposited in trenches, and the ground where these trenches are is quite out of the town.

about half a mile away.

(c). The registration of births has ceased under the Sanitary Commissioner's No. 1026 of the 6th September 1880. The deaths are registered by the Police. The registration area is divided into three oroles. As the statistics are collected by the Police, the cost of register-

(d). A vaccinator on Rs. 12 a month is engaged for four or five months each 'year, that

is from December to March or April.

(c). There are no public markets; six private markets exist at present-four at Naraingunge, one at Madangunge, and one at Bandar, and a weekly hat at Sonakanda. The one at

Bhugwangunge in Naraingunge has pukka floor with pukka side drains. The owners of the other bazars have been ordered to make pukka floor and pukka side drains into the markets. All are kept clean.

X.-(a). The length of the metalled road is two miles, and that of kutcha ones is

(b). There are 35 light-posts-30 at Naraingunge and five at Madangunge. The lights used are common kerosine burners purchased in the bazars and placed in lanterns, the cost for the year under report being Rs. 210-4-6. Provisions have been made in this year's budget for supplying proper lamps to existing lanterns, and also for increasing the number of lamps.

(c). List of municipal buildings-

1.	Municipal office				1
2.	Dispensary house	• • •		000	1
3.	In door patients	• • •	• • •		1
4.	Cook-sheds			9 6 9	2
5.	Native Doctor's dwelli	ng-house	a = 6		1
6.	School houses				2
7.	Sweepers' shed		• • •		2
8.	Cow-shed				1
9.	Latrine houses		0.00		8
10.	Division house				1
					_
			Total		20

The annual cost of repairs being Rs. 207.

(d). Roads are watered during the hot season, the annual cost being Rs. 150.

XI.—Education.—There are three schools within the limits of the municipality—one at Naraingunge, one at Madangunge, and the other at Bandar—receiving subscriptions of Rs. 38, Rs. 20, and Rs. 10 a month respectively from the municipal fund. The daily attendances of boys at the schools are-

For	Naraingunge	 800	***		67
22	Madangunge	 		***	35
22	Bandar	 		000	45

XIII.—The average balance now available after payment of all fixed and recurring

charges would be Rs. 4,200.

XIV.—The present taxation is six per cent. on an annual valuation of Rs. 2,83,000 for the coming year, and it would not, I think, be wise to increase this for some time, more especially as the increase in taxation, consequent on the introduction of Act VI of 1878 this year, will at first be considered an extra burden. The great increase last year caused a very great discontent.

Rainfall, Weather, and State and Prospects of the Crops

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 14th July 1888.

all w	No.	District, and de return.	ite of	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the grops, and
818	NRA				
	. 1	Wastern Distr	icta. 7 21 '83	13.82	Wanthan want sainy Huavy sain during the week at head question has greatly
	1	Cuina		3.8	Wenther-very rainy. Heavy rain during the week at head-quarters has greatly improved the prospects of the crops; rainfall in Cutwa and Culna antisfactory;
		Cutwa	***	5.16	the prospects of the amus crop are, on the whole, fair; other crops promise
DIVE	2	Bankourn, "	21	9:76	well. Weather-cloudy and rainy. There was good rain during the week throughout
5	1 -	Bishenpore		E . U.C.	the district, which has improved the state and prospects of the crops now
ВОИРМАЯ	1	Maliara		0.00	growing. Public health good.
E.W.	8	Beerbhoom	21	10.37	Heavy and frequent showers Transplanting of rice crop in full progress.
2	1	Rampore Haut		G:04	Prospects satisfactory. Prices stationary. General health of district good.
20	1 .	Midnapore	21 ,,	4.10	Wenther-cloudy and rainy. Cultivation still going on. Prospects of crops
	8	Hooghly,	21	12.97	favourable. Public health good. Weather seasonable. Prospects of crops good. General health good.
		blowrah ,.	23 ,,	3.40	Weather-cloudy, with rain. Jute nearly ready to cut. Aus rice and augarcane
		Oolooberia	2.4	6.38	well up. Amus rice growing. Cholera reported in several localities, but
		Contrat Dietre	cta		probably other bowel-complants reported under this name.
	1 6	24-Pergummas, Jul	y 24 '83	4.3*	Weather-seasonable and rainy. Early crops doing well. Transplanting of
				1	amus rice going on briskly in all parts of the district. Prospects good. Public health good
46	7	Nudden,	21 "	2.48	Weather-cloudy, rainy and cool. Prospects of crops fair. More rain wanted at
AF		Kooshtes Meherpore	*1 *	0.9	Kooshten. One or two cames of small-pox reported from Karimpore. Mortality
PRESIDENCY DIVE.		Choondanga	***	2.34	from fever decreased considerably this week.
5	1	Ranaghat		8.67	
=	8	Khooius,	21 ,,	4:43	Weather-cloudy with frequent rain. Ploughing for amus rice is still in pro-
2					gress. Prospects favourable. Some fever in Satkhira sub-division, but general health good.
3.	9	Jessore,	21 "	6 27	Wenther-rainy. Heavy rain during the week has done immense good
		Bongong	**	4.73	to the rice crop. More rain wanted. General health good.
		Magura	***	7.49	
	10	Naruil	0.1	3.62	
		Mourahed abad, ,,	21 ,,	5.00	Weather-cloudy and showery with occasional sunshine. Transplanting opera- tions are being pushed on vigorously owing to the recent rain. Ans has been
	- 61				much benefited by the rain. Public health on the whole good,
	. 11	Dinagopore, July	20 '88	3.28	Weather—seasonable with high winds at times. Rain much wanted. Cultivation of aman at a stand-still in some places for want of sufficient rain. Prospects
ari					of bhadoi fair. Rice selling at from 17 to 27 seems per rupse.
DIVE.	12	Rajabahya	21	8·04 2·10	A good fall of rain especially at Nowgong. Crops doing well. Some fever as
		Nowgong		5.20	usual,
Винай	18	Rungpure	21	3.26	Weather-seasonable. Aus and jute are being barvested. Prospects of amus
2		Gaibanda Kurigram		1.45	and sugarcane good. Cholera reported from some parts of the district More rain wanted in Sudder and Kurigram sub-divisions.
8		Nilphamari	***	5.82	rain wanted in Sudder and Adrigram sub-divisions.
ARL CUUCH	14	Hugen. 11	21	7.05	The week has been very wet, as rain fell daily, Monday (16th) excepted,
3					Transplanting of assess paddy is being pushed on. Public health good, but fever is still reported from police station Bogra and outpost Dhunat.
N. 1	15	Pobna	21 ,,	3.18	Weather-cloudy, with light showers. Rain has done good to the standing crops;
	16		00	5.81	more rain wanted. Rivers still very law. Public health good.
R	-	Darjoeling, ,.	22 ,,	001	Weather seasonable. All native crops doing well. Murwa and Indian-corn ripening in the hills. There is still some cholera in the Terai and a few cases
# CHEHRIT	10				in the hills.
3	17	Juspigures, ,,	21 "	6.87	Weather—seasonable. Rain is falling more continuously. Prospects of cropfuir. In some parts of the district jute does not promise well. Public health
-				0.00	improving. Cholera abating
	1	Couch Behur, up to 18th.	20 ,,	8.88	Weather-hot and close at first, rainy towards end of week. The rain has enabled people to carry on transplanting of late rice. Cutting of early rice
		Dinbatta	141	0.85	continues. Prospects of jute good. Cholera disappearing.
		up to 15th.		0.77	
		Mathabhanga up to 14th.	***	0.77	
		Meckingunge	400	0.67	
		up to lath			
	18	Daton July		10.54	Weather-rainy with occasional gluppees of sunshine. Sowing of roachia
		Manickgungo		11-14	and shall naddy coing on. And paddy and jute are being cut. Prospects of
	1	Munshigunge		9.90	ows, amus and right paddy in the Sudder sub-division appear unfevourable owing to the waters having fallen much. A large quantity of jute in the
K.	1	Naramgunge	***	12.08	Nawaboungs station has been destroyed by worms. Crops in the low land
Da					of Touchi ontpost have been damaged to a certain extent by a sudden rise
43	19	the same and the same	91	5:25	of water there. Ames paddy, sugarcine, mag and til thriving well. Weather essentiable. The rains appear to have at length began. State of crops
DACCA		turresapore. ,,	20 L pp	6 97	moderate. Prospects improved during the week. Public health generally
-	20	Madaripore	9.63	9.48	good. Wonther-rainy. Crops doing well. Public health fair. Cattle-disease prevails in
	1	findratkanka. "	19 ,,		some parts of the Patuakhali sub-division.
	1 21	Mymenningh. "	20 ,,	6.79	Almost continous and occasionally heavy rain up to 18th. Sky still heavy. And
		Janualpore	161	3·33 8·45	and jute crops benefited by the rain but their outturn will not be good. Fewer provalent in south-cast. Itive a gone down a couple of feet.
		Kishorogunge Latea	***	1277	
		Notrokous		6.63	

	No.	District, and da	te of	Rainfall at Sudder Station in inches.	Character of the weather, state and prospects of the crops, and
		L.—conold.			
E		Districts.—coucld.	24 '88	13.28	Weather-seasonable. Prospects of crops fair. Amus doing well. Cattle-
DIVE	20	Noakholly, ,,	19	13 94	disease still reported. General health good. Prices stationary. Frequent and sometimes heavy rain occasionally accompanied with, and preceded by, strong southerly wind. Aus paddy ripening. Preparation for transplant-
00.00	34	Brahmunbaria	19	18·I8 8·06 11·10	ing of amam paddy continues. Weather-seasonable. State and prospects of crops fair. Jute is being gathered.
OHPETAGONE	26	Chandpore Chittagong Hill ,, Tracts.	17	8:42	Weather—excessively close in the first half of week; storms of wind with rain have lowered the temperature. Jam paddy doing fairly well. Lands being ploughed for paddy, and seed beds well advanced. Prospects of sugarcane good.
	1	Hill Ciprorah. "	18 ,,	8 76	Weather—rainy. Amus paddy still being transplanted. Sugarcane doing well. Public health good.
B	EHAE	8.			
	. / 86	Patna,	***	E	Return not received.
40	27	Gya July	21 "	6.82	Weather—hot and cloudy with frequent showers. Bh.doi crops and paddy seed- lings thriving under favourable weather. Sugarcane and Indian-corn looking remarkably well. Cholera still prevalent.
PATER DIVE.	28	Shahabad, Buxar Sasseram	21 ,,	1.77 4.25 1.83	Weather—seasonable. Orops promising. Cholera and fever reported from Bhabhua.
G W	\$ 39	Bhabooah Durbhuuga, ,,	21 ,	1·10 2·13	Heavy rain on 18th from the north. Prospects much improved by rain. Trans-
PAR	80	Mozust-rpore, ,.	91	4·24 1·58	Planting resumed with vigour. Health good, Prices stationary. Weather—cloudy and showery. The rain has been very favourable both to the growing bhadoi crops and to the transplanting of the aghani rice. Public
	81	Seetamurhee Sarun, Sewan Gopalgunge	21 ,,	0·41 2·51 4·85 8·89	health fair. Weather—cloudy and rainy. The rain has done much good to standing crops, and appears to have been general throughout the district. Prospects of bhadoi crops excellent. Manufacture of indigo going on. Public health good. Prices
	82		21 ,,	1.16	easy. Weather—hot and cloudy. Bhadoi sowings almost completed. Sowing and
	88		21 '63	2·84 2·01	transplanting of aghani crops in progress. General health fair. Weather—hot and showery. Bhadoi crops have germinated well. More rain required for rice. Public health good.
AUULPORE DIVE.	84	Jamui Bhaguipore, ,,	21 ,,	1·39 3·94	Weather-cloudy; cool. Fair rainfall everywhere. Prospects of crops good.
POR	86	Furnesh. Kissengunge	21	2·13 3·41 4·51	Weather—showery. Prospects of crops fair. Health fair.
BHAUL	86		21	7.5	Weather—cloudy and rainy. Moderate east wind prevailing. The heavy down- pour of this week has done much good to the standing crops, Common rice is selling at 16 seers a rupee. Goneral health fair.
40	87	Sonthal Perghs. , Deoghur Rajmohal	21 ,,	6.04 8.28 4.18	Weather-rainy. The rain has been most beneficial. The bhadoi has improved and transplanting of the aghani crop is being pushed on.
		Jamtara Pakour	•••	5.56	
OI	RIBSA				
Vil.	88	Cuttack, July	20 '83	4.4	Weather—cool and cloudy Sarud progressing wall. Beali being weeded. Sugarcane and cotton doing well. Common rise selling at from 20 to 24 seers per rupes. Public health generally good, with exception of a few cases of cholera
URIGOR DIVIL.	89	Poorec, Khoorda	19 ,,	2-90 8-53	in the town. Weather—cloudy and rainy. Re-sowing going on in some places where the young plants were destroyed by late flood. Prices stationary. Sporadic cases of
UMB	40	Balasore, ,,	20 ,.	1.93	oholers in town and a few places in the district. Weather—cloudy and rainy. Ploughing and transplanting going on. Standing
401		NAUPURE.			crops progressing well. Public health generally good.
	41	Agency.	20 '88	8.08	Weather-cloudy and seasonable. Sowing still continues. General prospects of
	42	Lohardugga. ,, Palamow	21	5 64 0.75	crops good. Public health wood. Weather—rainy Prospects satisfactory; but crops would benefit by sunshine. Rahar, marwa, &c., being sown. Epidemic cholera still prevalent in Hussinabad
	43	Singbhoom,	20 "	2.27	(Palamow). A few cases reported in Jorpa (head-quarters). Prices steady. Weather—seasonable. Moderate rain has fallen all over the district. All crops doing well. Prospects everywhere favourable. General health fair.
	66	Manbhoom, ., Govindpore	21	4·45 8·24	Weather-rainy and cool. Transplanting of paddy going on. All crops most promising. Public health good.

Published for general information.

CALCUTTA, STATISTICAL DEPT.,
The 17th July 1883.

COLMAN MACAULAY,
Secy. to the Goot. of Bengal.

PRICES CURRENT OF FOOD-GRAINS, FIREWOOD, AND SALT IN THE DISTRICTS OF BENGAL FOR THE FORTNIGHT ENDING 15TH JULY 1883.

PRICES CURRENT of Food-grains, Firewood, and Salt in the

RETAIL SALE :- QUANTITIES PER RUPER BY

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		9.		4 - *1		14	4 2)	11.5			Y 4 1	08 -		2 0.			101					

In the sub-divisions retail prices of salt are as follow:—China 18} seers, Cutwa 102 seers, and itaneegungo 182 seers.

In the interior retail prices of salt range from 1 to 15 seers.

In the interior retail prices of salt range from 9 to 182 seers.

In the sub-divisions retail prices of salt are as follow:—Chattal 142 seers, and Contai 11 seers.

In the sub-divisions retail prices of salt are as follow:—Baraset and Bussirhat 13 seers, Diamond Harbour 102 seers, Barrackpore 122 seers and Dum-Dum 12 seers.

In the sub-divisions retail prices of salt are as follow:—Kooshtea 122 seers, Meherpore 12 seers, Choosdanga 122 seers, and Ranaghat 18 seers

In the sub-divisions retail price of salt 11 seers.

La the sub-divisions retail price of salt are as follow:—Jhemda, Magura and Narail 12 seers, and Bonyong 18 seers.

In the sub-divisions retail prices of salt are as follow:—Labbago : 1 seers, Jungypore 20 seers, and Kandi 113 seers.

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Districts of Bongal for the Fortnight ending 15th July 1883.

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lletail price of salt at Raigunge 112 score.

In Nattero retail price of salt 12 score.

In the sub-divisions retail prices of salt are as follow:—Nilphamari 12 score, and Kurigram and Gaibanda 10 score.

In the sub-divisions retail price of salt at score and Silligoree 10 score.

In the sub-divisions retail price of salt are as follow:—Manckgunge 11 score, Moonsheegunge 19 score 104 chitta ks, and Naraingunge 13 score In the sub-divisions retail prices of salt are as follow:—Madaripore .2 score, Blanga 11 score, and tiqualgunge 124 score.

In the sub-divisions retail prices of salt are as follow:—Madaripore .2 score, Blanga 11 score, and tiqualgunge 124 score.

In the sub-divisions retail prices of salt are as follow:—Paramkhaii 94 score, Perorepore 11 score, and Blanta 9 score.

Lu the sub-divisions retail prices of salt are as follow:—Kishoregunge 108 score, Attea 12 score.

PRICES-CURRENT of Food-grains, Firewood, and Salt in the

		-																				RE	TAI	L 8	BAL	E :-	-QUA	NTITI	ES PE	R RU	PKK B	Y TI
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8	Nonkholly			11.				1				***	1	19	20	0	20			0					32		000	***	100	***		
4	Tipperab			. 6	11	6	12	0	1			405	1		17		18			0	1	12			28		***	144	***	***	***	
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j	Maldah		17	(j	17	0	10	0				**			10	0	14	O	16	0	10	0	16	0	21.	0			***	***	-10	
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-	W. MOOROOR	181	1		1				-					.,											74		***	+0+		***		

CALCUTTA,

[•] In the interior retail prices of common rice vary from 28% to 30% seers.

U. Hetail price of sait at Kumeriah 10 seers, and Hathazaree and Cox's Bazar 8 seers.

V. In the interior retail prices of sait range from 5 to 12% seers.

In the sub-divisions retail prices of sait are as follow:—Brahmunberiah 12 seers and Chandpore 12% seers.

X. In the sub-divisions retail prices of sait are as follow:—Brahmunberiah 12 seers, bassaram 11 seers, and Bit Is 10 seers,

Y. In the sub-divisions retail prices of sait are as follow:—Mathaban 10 seers, and cappore 11% seers.

Z. In Happers sub-division retail prices of sait in three reporting places 11 seers and in one place 12 seers.

Z. In the interior retail prices of sait range from 10 to 12 seers.

SRER OF 80 TOLARS.

RAGE		IDRWA	MATE	cor I	
resent return,	fort prededing return.	corresponding return of last year.	readly rature.	fert preceding return.	corresponding return of last year.

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92	0	22	0	25	6	160	0 120	0 160	0
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Districts of Bengal for the Fortnight ending 15th July 1883 .- (Concld.)

	7															OF				-			
	ROL.	CKSMI PENTER MON MA	CARI			or H	STOR	LAL	R-BOD CULTU BOURE	AGRI				LT.	8						SAL		
DISTRICTS.	Corresponding return of last year,	Next preceding return.	Present return.	Corresponding return of last year.	-	Next preceding return.	Present return.	Corresponding return of last year,	Next preceding return.	Present return.		Corresponding return of last year.		to a series of the series of t			Present return.	and the first state of	of last year.		Next praceding return.		Daniel or the second
riets.—(Concluded			R. A.	Ra. A.I	A. IF	Ra.	Ra. A.	Ra. A.	Ru. A.		n 18	Ra. A.		A. 1	Ra	p.	6. A.	R	126.5	i (8.	- (I	l.
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In the sub-divisions retail prices of salt are as follow: — Bounseral 10 seers and Janual 11 seers.

In the sub-divisions retail prices of salt are as follow: — Binka 11 seers, and Muddehpura and Scopole 10 seers.

In the sub-divisions retail price of salt 10 seers.

In Bhag-ak retail price of salt 10 seers.

In Bhag-ak retail price of salt 10 seers.

Retail price of salt at Chutra 8 seers, and Khurruckdiha 11\(\frac{1}{2}\) seers.

Retail price of salt at Burrabazz 10 reces, and Gobindpage 11 seers.

Published for general information.

WHOLESALE PRICES-CURRENT of Food-grains, Firewood, and Salt in

	1																																				4	PH	ICES	PK	R M	AUN
			-			M	Z II	42.							BA	BL	HT.					В	LIO	8, 1	187	r of) H I	4				Ric	OB,	CO	M M	OR			Burn	EUO M BC	H M 1	TELES ALLA
AN GRADURA	MARTS.			Prosent return.			Next preceding return.			Corresponding return			Prefeut return.			Nest preceding return.			Corresponding return			Present return.			Next preceding return.		Corremnadine return	of last year.			Present return.			Next preceding return.	-		of inst year.		Present return.		Nest preceding return.	Corresponding return of last year.
	"		it.	Δ.	P	R	. A.	P.	к.	Δ.	P.	к.	Α.	P.	16	. A.	P.	12.		P.	R.	٨.	P.	R.	۸.	P.	R.	٨. ١	2".	R.	٨.	P.	R.	A.:	P.	R.	۸.	P.	R.A.P.	R.	. A. P.	R.A.
1	Calcutta	,	2	13	0	9	14	0	0	14	0	2	1	0	2	0	0	3	19	0	3	19	0	8	14	(1	4	0	0	2	8	0	3	8	U	2	0	0	8 0 0	0.8	0 0	49
2	Sorajgunge		1	14	0	1	13	0	1	14	0			1		* # #			***		4	0	0	4	0	0	3	0	0	2	4	0	2	4	0	1	14	0	***		***	-
3	Lincon		8	2	0	3	2	0	3	3	()	2	0	0	2	0	0	0	15	0	2	8	0	2	10	0	1	10	0	2	0	0	2	2	0	1	8	0	***	2	0 0	900
	Nareingung	e			1			1			+		144			••					2	2	0	2	3	0	1	8	0	1	13	0	2	0	0	1	6	0	***			
	Chittagong		3	0	0	3	()	0	4	2			o 0 +	1		476			•••		9	14	0	2	14	0	2	8	0	2	()	0	8	0	U	1	8	0	0.00		***	***
	l'atma		2	8	0	94	3	U	(1)	á	0	1	3	0	1	3	0	1	2	0	2	11	0	60	11	D	3	6	O	2	6	D	3	0	0	1	12	0	***		104	**
	Halasore	***	36	14	()	6)	10	0	0	2	0		•••			***	1		***		2	Ь	0	2	8	0	1	8	0	1	5	0	1	6		1	7	0	***			••
	I'ooree	••		14.			**						* * 5									4 + 1			***					2	2	0	2	9	0	1	10	8			***	100
	Cuttack		0	10	U	3	()	0	0	10	0					* *			167		3	0	0	8	0	0	2	5	0	1 :	11	0	1	10	U	1	9	0	004			

CALOUTIA,
The 24th July 1883.

the undermentioned Marta of Benual for the Fortnight ending 15th July 1883.

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	MILLI UM, JOI		RAGI	n Mill on Mu Cassi	AWA	HAR	dors	HDIAM-			GRAN	l.			F.	13.35	WOOD					Ba	LT.	4		A
Pleasul return.	Next proceding raters.	Corresponding return of last year.	Present roturn.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present refurm.		Nest preceding return.		Corresponding return of last year.		Freezat return.		Next preceding return.	Corresponding return	of last year.		Present return.		Next preceding return.		Corresponding return of last year.	MARTS.
K. A. P.	it.a.p.	R.A.P.	R. A. P.	R.A.P.	R.A.P.	R. A.	P. R.A.	P. R.A.	P. R.A.	. Р	Н, Δ.	P.	.A.P.	R	A.1	. 1	L.A.P.	R.	A.P.	R	٨.	p I	L.A.1		L.A.	
					***	1 8	0.1 8	0	2 2	0 5	9 4	0,1	14 0	11	в	3.0	6 8	0	6 3	9	12	03	12	1 2	10	Calcutta.
104	14.		101			***			8 6	3 0	2 10	0.8	4 0	0	ď	00	6 0		***	8	()	03	2	0 2	13	O paragrame
						,		1	2 4	0	2 6	0	13 (0	4	0,0	b 0) ()	5 ()	3	4	03	4	0 2	16	O Danna.
- 0 ×	***		-61						9 8	0	2 8	0.1	14 0	0	7	00	7 (10	7 (1	3	2	0 3	0	03	9	O Varaingua
101						i			8 (0	8 ()	1) 5	B (i ()	6	3 (5 8	U	8 0	4	0	0 4	U	0 2	16	Ochittagon
14						1 3	01 3	0 1 9	01 8	3 6	1 δ	0	4.6	0	6	00	5 0	1 ()	5 0	3	O	01	0	E;o	9	U Patua.
rūr									2 14	0	9 12	0 2	8 -	. (6	4	ő é	10	4 0	4	6	0.4	8	03	2	O Balass a.
447			-9.		- 6						181						, .		• • •	2	19	0 2	12	0 3	19,	Por ree.
***			800	2 10 0	2 14 0	8 9.5	A.4.1		2 2	10	2 2	0 1	11 0	9	B	00	8 0	Q	40	2	12	11 2	12	0/8	0	O Cuttark.

Published for general information.

Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

									BTATIO	N OBSE	RVATIO	DNO.					
	4 * "			An	PREST	ER.	Wisi),				EPERAT				eek.	amount week.
	DISTRICT.	Representative	0	lean harometer begin, in A.M.	Wern reduced to sea-level.	Caristion from	Provailing direc-	Mean wind velo- city miles per day.	Highest during week.	Lowert during week.	Mean maximum tomperature.	Mean minimum ter presture of work.	Mean daily tem- persiture of week,	Variation from normal mean of week.	Mean 10 A. M. temperature.	Average humidity at 10 A. M. for week.	Average cloud an
1	(Gopalpore	**	Sis. Vio	201860	_	R	861	#5*K	79°8	84.0	80'3	87.3	-	82'8	86	7
1	Pooree }	False Point	.,	20.010	(016)17	+ 00%	8W	386	6415	7416	87 1	7814	82°R	-0.9	84'1	84	()*(
1	Cuttnok	Cuttack		201555	201635	+ 023	W.Z.A.	99	91'4	75'3	87*9	7814	831	-1.0	84.4	76	Un
1	Bulanore	linlasore		29.565	291023	-	8W	101	87*9	76.7	841.9	78.2	62*3	-	83'6	85	7.
1	South West Midnapore	Consessa Released		401210	20.030	+ (1/24	ew.	423	8814	71:4	9619	791	+30	-0.8	84.0	87	91
17	South 24-Pergunnaha.	Saugor Island	400	201010	24 0490	7.1190	1	120	05.9	,,,,	1,47	10.		,,,,,			
1	Midnapore	Midnapuro	**	20:470	20'618	-	Variable	4	80,0	78 %	87.5	76°H	81.0	***	84.5	80	81
П	24-Pergunnaho			1													
11	Howrah	Calcutta		201007	50.050	+ 020	8W	169	88.1	74'7	86'7	77.0	82.3	-1.3	B3'1	88	01
H	Hooghly2									- 1							
H	Burdwan	Burdwan	, .	20.218	25/613	+ 007	MAS.	110	\$167°63	7414	89.5	7719	8311	-1.0	88.5	88	.8.
11	Bankoora																
1	Beerbhoote	Ranigunj	**	20 236		-	Varmble	7	95 2	7414	89.0	77 4	8312	-	rus	91	1
+	West Burdwan													1			
1	Moorshedabad	Berlinnipere		20.240	Stations	-1-003	Variable	1116	88.0	7418	B4.5	77*6	85.4	-3.1	6310	65	1
	Nuodos																
11	Jensoro ?	Jeasore		29:570	20'019	400H	88W	1091	21(112)	7810	87.7	7411	62'9	-1.8	8419	90	
П	Khoolun								j					1		0.0	
11	Chittagong	Chittagong		20.017	20707	+040	SE	144	9011	74.0	65.1	75°6	80.4	-1.1	60.2	92	8
Н	Chittagong Hill Tracta	Demmeri								not receive							
4	Backergunj	Burrisal		50.00			2.11.	32514	90.1	74.0	83'4	77.8	8113	-	81.3	116	
1	Nonkholly	Noukholly			(ot comm		1				444	
11	Furreedport	Furresdpore		50.015	-	-	Variable	14313	88°5	75'0	1461-12	7719	91°H	-	81.8	2032	9
H	Dacen	Dagen		20 605	\$\$50.42@s>	-(- t(<u>Q</u> () _*	Varioble	118	9048	781	87514	77 6	8115	2.4	85.2	949	
1	Committeh	Committeh		291034	241.47.4		8.80	1	94413	6019	8014	7510	7H12	-	80.4	1 101	1
11	Mymensingh	Hymmanigh		20.001	-	4.0	E	161	80'8	75-1	NS'7	76'0	61.7	-	801)	av a	
IJ	Born and Pub.m	Suragent		41					1	ot comme		2014	0.414		83.4	85	(1
1	Rajshahye	Rampore Beaul			291605	Armen	Variable	1 7 9	92.6	77.6	8816	79'4			6217	76	11
11	Dimegepore	diagonare	**	20/600		-	Variable	1370	98'43 92'8	76 1	8913	77.8	8312		8412	62	H
1	Eungpore	Rungpore	**	29'697		-	A DETH DIV	84970	1/2 0	70 1	Ott. O	110	1041 (1		110 2		
	Julpimoree	Julpigoree	***	20'312	-	-	7	127	80%	741	87°5	76%	810	-	82'5	86	8
1 1	Conch Beliar	Darjeeling		49.650		_	E	93	71'6	54'G	6716	8618	61.8		65.29	94	8
li	Darjoeling Hill Districts	Dahree	**	25°243	25/ 50/6		s W	9	92.4	70.0	84.6	71'8	วทาม		63'3	190	8
1	Shahabad	UZBF	**	20'318	2011 A 47	_	Variable	1119	100 9	76'8	91 2	7811	86'6		8.118	83	8
i	Gym	Gyn	**	21P2uh	2012/16		Variable		98'8	73'8	9110	7418	Ag-th	.24	8816	84	10
ĺ.	Patria	Bunkipore		Min 5192	291'596	4:014	Variable	110	100 0	77.7	80.41	70'1	Han	-1.0	83-4	84	8
	23 - Al. 115	- Strict of Co.			1											-	
11	Monghyr	Bhagulpare		291445	Man page	-	Variable	565	50.1.4	77'0	RH*6	78 5	83*8	-	63.1	56	7
L	Southal Perguonala	Doomka		90°10N	-	-	N.W.	-	91.1	7418	87'8	7614	92.1	-	85.8	0.2	
6	Purnesh							1		Í	}						
1	North Bhazulpore	Printing		MD 460	21/5/15	001	E	3%	03.5	76.8	8919	78*2	8816	-1.0	88.0	86	\$1
11	Manuffarmona																
1	Durbhunga	Durbhunga		291425	291501	+019	8E	108	\$801.6	76.0	R(1)7	0012	9810	+010	86°P	62	7
1	Chumparun	Motihari		_			NE	-	966	76 4	8813	78'2	8312	-	85.0	Bo .	2
	darun -	Chupra		231'346	-	-	Variable	61	004	76'5	9714	77'1	87'7	-	541	9%	5
1	Hamringh	Hazaribazh	101	271014	20.600	0.24	M.	213	BU:B	72'6	82'8	7410	28.4	-1.0	77'9 ;	80	10
1	Lohardugga							1						1	- 1		
1	Manbhoom	Hunohen	1.00.4					Oh	servator;	y not con	10011111111				1		
	spurithoon	Chybu-na			,					Ditto.							

Explanation of Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same The humality of the atmosphere is expressed as a percentage, saturated are being represented by 100. A clear sky is denoted by 0 and an expressed sky vations, ramball," the normal means are the our creal means of averages of the rainfall in that district determined from the returns sent in by the sub-divisional stations in the district sending in returns divided by the number of stations. A rainy

the week ending 20th July 1883.

					PINIRIU	T OBSERVA!	TONE,								
	4					RAINPALL.								0	
	Of w	rcok.	Bir	nce lut of m	onth.	Sir	100 löth Ma	y.	days reek.	days	Represent	intivo	DISTS	ICT.	19
THE PERSON NAMED IN	Average for district.	Normal Elean for district.	Mean for district.	Normal mean,	Variation,	Wean for district.	Normal mean.	Fariation.	Average numbers of rang days	Normal number of rains days of week.					-1
								1			Gopulpore	7			
	2:02	3'41	10.38	7.91	4-2145	72.05	18150	+9112	5'0	4'2	Palse roint	3	Pronee		***
	4.40	8.13	11'26	8114	+812	28.22	18170	+ 10152	413	318	Cuttack		Cuttank	* 4 +	***
	8:01	8.84	8.43	8'75	+1'08	27'72	18.20	+9.55	8.3	410	Balasore	**	Balauoro	411	
	ñ*84	8*13	13:27	6:39	4-3160	25.01	21.70	+3128	6.3	415	Saugor Islan	id	South-West	Midna	apore
	5'68	2184	8:30	7.76	+0.91	3 (1 4 (1	19182	3 36	5.0	3 9	Midnapore		South 34-Pore Miduapore	(10 TAXABLE)	18
	V.,_	1									1		24-l'ergunnah	***	401
	6.28	2:33	10'72	6 79	+3'93	21.73	19.72	+201	6.9	419	Calcutta		Howrah		941
						1							Hooghly	***	0.54
	9100	8.01	10*44	5187	+ 6.87	23:47	17:17	+6.30	6:0	3'8	Burdwan		Burdwan	***	***
												1	Baukoora	***	***
	8.33	5.00	10.91	7:37	+3.34	20100	20.12	+6165	5.9	4.9	Ranigunj	}	Beerbhoom		***
													West Burdwa		
	8143	214	7:16	3.19	-0.03	20196	1946	+1.91	5'7	4.3	Berhampore	00	Moorahedabad		***
	4'03	1.60	6:04	6.43	- 0.38	17:47	80.08		6.8	410	.,.		Nudden		***
	8:48	2 58	8.80	6.81	×1.69	19'92	23 13	-8:21	6.7	4.7	Jensore	5	Jennone		
												5	Khootua	+02	
	13:39	7.28	10.80	18:20	-1'40	89*86	53'05	+16.81	7.0	843	Chittagong	***	Chittugong	***	114
	5'94	8.51	8126	8.88	-0.43	59.03	32.48	-3.45	618	5.4	Demagri		Chittageome Hi	ll Trac	te
	7'51	0°17	10186	11:27	0'93	30.03	36:41	-6.20	6.8	510	Barrisal		Backergunj	***	100
	7'36	5°70	15'84	14'54	× 1*30	69'31	65'67	+ 10.84	6.2	5'8	Nonkholly	9.64	Noakhully	***	
	10'11	2.78	2,00	6 70	+ 7,20	20.69	25'98	-3.33	7'0	418	Furreedpore	***	Furredpore	***	***
	0.00	2.70	12'73	7:78 8:16	× 6'11	23:70 35:69	30.76	- 2'26 + 4'95	7:0 6:8	4'0	Dacea Committee	101	Daces	* * *	
	7'28	2 80	8'93	8.38	×0'57	35 69	30 74	-8:17	6.3	6.0	Commillah		Commillah	***	•••
	0'31	2.40	5'93	7:60	+0 45	22.86	24.00	~ 1°Hō	B'6	416	Mymensingh Serajgunj	4.4	Mymensingh	* 0 *	***
	3199	2.81	P. 50	N.05	-3:33	17:98	22 09	-4.11	6.7	412	Rampure Ben	talant.	Bogra and Pul	JU136	***
	5.83	2.21	4144	8'00	-3 56	18.85	20186	-8.01	514	41	Dinagapore			** '	**-
	3.80	8.19	4'07	10.50	-6:32	51.90	39-46	-18:12	4'0	81	Rungpore		Rungpore	**1	1
										1			Julpigoreo	89.1	***
	0.00	8*60	10183	13104	-2.13	42.58	85 17	-18.51	6.0	4.2	Julpigoree	i {	Cooch Heinr	140	
		9127		201103			73364		b	0.0	Darjeeling		Darjeeling Mil	Distri	invitas
	- 14			v			1		i	4	Dohree)		nm V (*/	1.002
	4.39	1*99	6.15	6.21	-0.95	16:11	12'67	+1146	5'2	42105	Buxar	}	Siminfind	4	94.
	5.119	8'16	7*08	0.05	+0.71	28'94	11171	+6.53	4.8	315	Gyn		Gyn	801	
	PR.8	5.41	4.02	7'35	-4.00	91148	16'66	+6'77	4.9	8.8	Bankipor		Patna		
	4110	2 30	5.30	7:10	-1'84	17 03	15:25	+1'78	8.4	410	Mangarlagge	5	South Bhaguly	ore	***
			4		1		40.00	1.0		4.5	Bhagulpore	-1	Monghyr		- 1
	0.90	2170	7.20	8.30	-1'00	20188	19.24	+1'32	6'05	4'3	Doomka		Sonthal Pargun	tinlin	
	8121	2'85	8100	NIDG	-3.88	20 28	22'37	+6196	616	4:1	Purneah	5	Furnesh	***	
												(North Bhaguip	oro	
	2 70	2'16	6:11	7:67	-3'86	21.07	15 88	+8.10	418	313	Durbhunga	{	Mozufferporo	114	
	2.11	1.92	Banco	Trust	-1164	12:16	17:40	-8"08	. 50	0.00	Mossilene		Durbhunga	***	
	3 64	2:07	6.99	7188 6192	-0.26	18.25	17'19	+1.01			Motihari		Chumparun		
	3.43	2:07	8 80	9.10	+ 0 08	16'46	18107	-1.01	5'7		Chupra Hasaribagh	- (Hazerbagh	***	[]
			0.00	., 10					,		and the state of t		Lohardagga	*54	
	8.94	4.30	11197	9:20	+0'77	22100	18163	+3 88	0.8	417	Banchee	}	Manbhoom	***	
	214	8.01	8190	7:39	+0.114	17:81	81.91	-3.70	6.0	4'0	Chychassa		Singlibhoom	***	

for the past 12 years. The variations are negative when the mean for the week is less than the corresponding normal mean and positive when greater. The magnetic denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head "district discretions for the period in question during the past 2 years. The "means for the district" are the numerical averages of the rainfall returns received one on which at least an hundredth of an inch fell.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 20th of July 1883.

					B.	AIMPALL				Tot	-		Average		Avera
eteorological division.	District.	Station.	Saturday, 14th July.	Sunday 15th	Menday, 16th	Tuesday, 17th July.	Wednesday,18th	Thursday, 19th June.	Friday, 20th	Number of rainy days.	Rainfall of week.	Total rainful from lat to 10th July.	total rain-	Total rain- fall since 15th May.	rainfi from t May dat
288A	Pooree	Pource Khurdah Benpur False Point Hookitels	0°18 0°40 0°10 0°21 0°54	0°26 0°59 0°26	0:01	0120 0165	0.01	0°83 0°86 1°94	0.03 0.01 0.01	7 6 1 8	1:00 2:84 0:80 8:20	9:81 12:00 5:03 10:83	6'86 7'63 7'10 10'07	28'70 81'87 21'41 81'36	11 11 12
	Custack	Jagatsingpore Hanki Cuttuck Kondenpara Jajpore	0160 '5 0 60 0128	12 0148	**************************************	2 1'50 2'00	1'20 0'40 0'40 0'40	0°10 0°59 8°30 2°28	1.00 1.80 1.72	8 6 4	3°71 7°20 4°56	8'63 10'58 11'63 13'02	6'03 8'41 8 19 9'71	88'56 68'82 88'08	20 20 21 22
	Rainsoro	Clundini Bluddruck Sorah Balasore Jerlasore	0.40 0.25 0.02 0.30	0°10 0'48	0180 0180 0180	0°51 0°d0	0 28 0 80 0 12 0 44 2 00	2102 0 26 0 70 0 41 0 30 0 45	0180 0185 0 08 0108 0150 0114	5 7 5 6	3'62 2 79 2'05 1'66 4'12 4'11	18/90 8/19 7/77 7/53 18/98 10/48	8123 7 88 7 12 9 46 10:70 9:04	88 (19 26:73 25:67 28:90 28:16	16 11 16 11
TR-WEST	Midnapore	Contai Sauger Island Tumbok Miduatore Ohntin'	0°98 1°94 0°28 0°90 1°04 0°84	0126 0105 0110 0124	0.03	1.30	2.76 0.30 2.70 1.03 1.30	0°92 0°90 2°10 1°71 2°11	0°14 0°43 2°40 0°23 0°28	6 7 4 5 6	5°35 4°31 7°40 4°10 5°08	14°50 15°42 10°50 6 53 7°85	9°29 9°60 6°84 7°03 9°84	29°40 26°18 18°00 14°25 10°23	26 21 25 14 16 25
	24 Pergunnah	Dinmond Har- tour. Alipore Jail tiarrackpore Dum-Dam Baraset	0185 0185 0126 0133	0:89 0:89 0:89 0:05	0°11 0°18 0°05 0°23	0 01 0120 0103 0127	3.08 1.62 1.10 1.10 0.00	3:06 1:32 6:10 8:37 5:10 6:28	0°18 0°05 0°72 0°29 0°83	6 7 5 7	6°35 4°27 8°03 8°27 7°78 8°04	11'87 P'10 11'04 12'17 11'56 15'42	9°28 7°18 6°14 6°16 5°72 7°65	18:72 19:01 22:48 21:09 22:40 25:07	20 19 19 19
	Howrah	Howish Mohesreka	0°23 0°34	0.49	0.01	0118 0101	0°85 1°14 2°91	1'40	0.18	6 7	8:4N 6:70	7:44 9:00	6'08 7'87	17'33 18 56	19
	Hooghly	Serampore Hooghly Johanabad	0°02 0°42 0°15	1.27	6103 0119 0117	0.15	1'19 0'96 2'00	6'50 9'15 9'25	0*85 0*85	7 6	7°15 12'97 8'20	9:84 15:7% 7:25	6°48 5°76 5°18	21 '56 20 86 18 07	19 17 20
	Burdwan	Cuina Burdwan Cutwa Bancegunge	1°10 0°50 0'80	0.85 0.00 0.00	0'16	0165 0155 0134 6180	1:45 1:20 1:37 3:40	4185 30720 2146 2145	0°10 0°24 0°18	5 7 6 6	7149 34120 5140 2423	9°59 35°48 6'32 17'98	8:28 8:02 8:77 7:19	#1 '48 80: 67 18:58 80:74	36 36 17 30
	Bankoora	Bankoora Bishonpore Maliara Khatra	1*05r 0*31	0196 0470 0470	****	2°45 0°80 1°69 0°55	1°21 0°58 1°02 2°70	4*25 3*60 2*44 0*53	0°50 0°10	65 6 4 4	9.76 5.30 0.14 8.60	12.44 7.10 8.60 6.45	7'41 6'78 6'83 8'82	20 68 21 78 22 40 18 60	19 24 12 21
	Beerbhoom	Bh. Soory Hetampore	0.07	0.10	0°24 0°71	2169	3·19 2·37	5.13 5.494	1.000 0.00	7 6	10:37	15:10 9:30	7 00 7 29	87°86 20°97	18 21
	Nuddea	Honsons Ranaghat Kishnaghur Chooadanga Alehorporo Kooshtea	6270 636 632 632 621 611	0°32 1°14 0°31 0°12 0°19	0.85 0.85 0.45 0.45	0 30 0 38 1 12 0 70 0 11 0 21	0 55 2 36 0 39 0 65 0 87	2 40 6 *2 0 *97 0 *38 0 71 0 *08	0°09 0°50 0 06 0 75	6 7 8 0 7	4:77 5:59 2:71 3:17 3:00 1:63	7:42 11:05 3:17 4:40 6:08 4:28	6.78 5.70 6.52 6.61 6.18	15-70 24-99 9-07 - 11-79 18-12 21-98	150 15 17 21 19
	Khoolm	Satkira Begirhat Khoolua	0188	0 17 0 72 0 08	0°08 0°87 1°10	1183 1174 0185	0°78 0°44 0°70	3°12 0°57 0°91	0°52 0°16	7	7'08 8 11 4'43	18'53 8 20 7'04	7.71 8.52 7.30	28126 1810 20148	24'
	Jesante	Narail Josacre Jhenidah Magoorah	0.80 0.85 1.08 1.80	0188 0167 0107 0180	0°07 1°07	1.82 5.10 1.82	0°21 1°2: 0 38 0°67	0°00 1°-8 0°13 0°27	0°18 0°09 0°11 0°78	7 7 7 6	8 61 6 03 6 76 7 34	0134 7199 0178 9168	517 616 6132 6180	18129 22138 17.79 23132	70°
	Moorsbedalad	Kandi Rampore Haut Berhampore Labouch Azime ungo Jungipore Lalgola	0°08 0°08 0°49 0°03 0°92	0.18	0.092	9:30 0:75 0:83 0:50 1:50 0:52 2:43	1°10 0°77 1°93 3°82 4°22 0°63 5°52	0°38 4°21 0°17 0°10 6°16 0°16	8°55 0 35 1°75 1°52 0°88 0°92 1°34	. 6 5 4 7	7:59 6:39 4:73 6:00 7:32 3:36 8:98	9:11 8:25 0:24 7:24 7:53 5:54	8:67 5:80 7:43 6:50 6:33 7:6,	92154 21 50 20 27 18 90 22 44 19 45 91 81	201 377 201 177 195 191
BENGAL	Chittagong	Cox's Bazar Chittagong	0104 U:21	0 48 0 08	0164 0109	8 72 4 10	1136	2105 0125	8.50 5.09	7 7	13.80	17:53	24'68 11'95	74:08 63:20	e15/1 6+11
	Chittagone Hill Tracts.	Ransamati Ruma Apartola	0.38	0.38 0.32 0.18	0.18	1%1 2755 2709	213/1 2124 0147	0*12	0'88 0'35 0'27	7 6	5°81 6'07 7'32	8:58 e (r.d.5 12:91	7/62 6/37	80°07 35°41 31°74	861 347 841
	Backergunge	Patuakhally Perozepore Burrual Bhola	0°80 0°45 0°48 0°27	0185 0185 0182 0176	1'06 0'19 0'68 1'00	2120 2104 3100 1196	6100 0.31 0.47 0.05	0.80 0.80 0.89	2100 1118 2162 0199	7 7 7 0	10'80 6'21 7'72 6'60	18'78 9 57 10'19 7'92	13'71 10 52 10'23	85°17 26 44 27 91 80'60	433 S-7 S-1 614
	Nonkholly	Nonkholly	0.41	2141 U145	2.51	6°56	0/82 1/68	0.32	0:72	6 7	13'05 9'76	1A AA	14.18	60143	67.5
	Furredpore	Madaripore Furrendpore Goalundo	0°31 0°59 0°57	0'94 0'76 1'75	1.11 0.07 0.58	5°16 2°10° 2°70°	1°12 1°20 0°55	0°75 0°08 1°05	0126 0105 0101	7 7 7	9°65 8° 0 6°97	12.70	7:09 0:71 6:50	21.85 21.39	#11 71 121
	Discot	Munshigunge Davua Naruingunge Manuskgunge	0:51 0:62 0:32 1:24	1.09 1.43 2.60 1.18	0154 0119 0170 0170	5 8 4 7 0 4 6 6 6 6	0965 672- 1 00 2762	0'34 0 12 0'41 0'00	0°17 0°40 0°-9 0°33	7 7 7	9:28 10:54 11:08 9:15	11 02 12 08 14 01 14 05	9:80 6:80	21°76 24'65 20'90	319 23.5 801
	Comtlin	Comilia Chan spore Brah numberia	1°20 0°15 0°35	0'72 1':5 1'00	0°70 0°25 1°88	7104 5120 5139	0.00 0.00 0.00	0°70 0°.6 0°11	0°26 0°50 0 05	7 7 7	17'00 9 55 7'27	17°02 14°75 10°15	H:74 H:34 7:10	40°62 36 60 27°25	351
	Hymensingh.	Kishorogunge Atm Nyménsingh Jamelpore Natrokom	0.20 1.89 0.78 0.67 0.79	0.77 1.1-0 0.27 0.65 0.40	1'04 0'47 1'93 9'6 1'22	0'35 6'-8 0'64 2'01 0 %	7°29 0°67 0°67 1°02 1 02	0°40 0°00 0°05 0°10	1:00 0:13 0:02 0:41	5 7 7 7	10:01 1:69 4:33 4:28 5:69	11:80 15:98 7:64 6:92 10:47	7'92 6 78 8'61 7'70	9511 50 86 9134 1678	51 31 31

displanation indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the return the opposition of the return the return the opposition of the return the return

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 20th of July 1883—concluded.

					IR	LAINFALI	to			To	TAL.			4	
devision.	District.	Station.	Schirday, 14th	Surday, 15th	Monday, 16th	Thewiny, 17th July.	Wednesday, 16th July.	Thursday, 19th July.	Friday, 20th	Number of raing days.	Rainfall of	Total rainfall from the to 20th July.	A verage total rain- fail from lat to 20th July.	Total rain- fail since loth May.	As crace rainfall from 15th May to dista-
DRIN BREGAL	Pulma	Pubna Serajgunge	0.58	0.51	018]	1°07 2°40	0.30	0.53	0'34	6	311× 610	61:27 7:37	8:00	10:56	91 i
	Bogra	Sherpore Nowshilla Bogrn Pauchbibi	0.78 2.03 3.48 0.60	0°20 0°41 0°24 0°24	1'90	1140 2103 4183 1148	0°20 0°40 0°40 0°68	0123 6127 6114 6196	0°08 1°14	6 6 6	6171 6121 10137 3199	7:72 5:42 12:42 5:76	0°05 6 :5 1034 1042	16'88 14'74 92'70 17'90	24 W
	Rajohahye	Besulesh Nattore	0.14	0.20	0.05	1'92	0.09 0.09	0°27 0°18	0104	7	8'04 1'70	4157 8130	8166 9105	14'18 12'05	21151
La C	Maldah	Maldah	*** ***	1.14	- 0 90	4'22	0.21	0105	0.33	6	7:15	7:99	8:16	10.03	21
	Dinagepore	Mohadebpore Churamon Raigunge Dungepore Baloorghat	0.50	0°40 1°28 0°44 1°08	0.85 0.85 0.85 0.80	1:60 0:22 1:21	1*00 2:83 0:67 1*80	0154 0112 046 046 046	0°40 0°03 0°07	7 5 6 5	5194 5194 2165 5119 5193	6:84 4:16 8:19 8:71 4:05	8106 6150 6154 11723	15 90 17 89 17 87 10 65	2000 2100 270 300
	Rungpore	Bhawanigunge Rungpore Kurigrum Bagdogra	0.02	1 28 6 33 0 11	0°44 0°60 2°£5	2.18 0.85 2.78	0°01 0°08 0°78	0°80 0°83	******	3 6 3	4°39 3°26 1°33 5°83	6.21 6.31	7143 18146 10114 1013	28°34 24 33 25°34	98-1 39 f 61 7 48-1-
	Julpigoree	Julpigoree	0*64	0'74	1.65	*****	3.68	0 54	0.67		6'87	10/12	10.53	51:38	61.9
	Cooch Behar	Dinhatta Cooch Behar Mickligungo Matabhanga	0°02 0 \$0 0°46 0°16	0°49 0°45 9°02 0°24	1*64 7*61 7*30 6*98	4.88 9.63 0.36 0.71	0.67 1.38 0.21 1.76	1'91 1'90 0'14 0'22	0.03	7 6 7	9:49 11:44 9:44 10:02	10°81 12°85 10°97 11°60	7:26 14:39 10:41 13:71	8 8191 47165 41182 81195	51 s 3st s 52 1 56 8
	Darjeeling Hill.	Silliguri Parjeeling Kalimpong	0.00 0.00 0.80	0.18	0°71 0°90 0°29	1'00 0'15 0'07	1:37 8:80 0:93	2:19 1:10 0:95	1.05	7	7-20 8-59	13.83	37'01 21'08		gacang @miret
orth Break	Purneah	Kissengunge Arrareah Purneah	0.72	0.27	0'98	0.48	1'88 2'94 1'50	0160 1178 011	100	5 3 6	3:77 4:51 3:17	7°71 8°65 4′95	11*18 \$*70 8*88	85-42 85-42	2919 25 7 23 1
	North Bhagul pore.	Maddapore Soopuol	0.11	*****	1.88 1.00	0.08	0.10	0°%6 0°20	0.45	5 3	3'27	5°73 1°88	7:87 7:17	83°94 23°98	16°0
	Burbhungs	fajpore Durbhuum Madhubani	*****	0.02 0.03	0:26	1*47	0103	0103 1138 1134	2.97	6 8	5:07 2 (3 1:6)	8: 01 8: 01	8°10 7°97 6°54	21:36 23:25 19:42	15'5 16 1 16'5
	Mozusterpore	Sitamarhi Mozufferpore Enjiporo	0.08	0.20	0.04	1.53	0.13	6/955 6/163	0°12 1°27 0°96	3 7 8	1'18 4'24 2'50	3-22 5-40 3-13	7105 8139 7102	11:23 2 ::27 18:85	16.5° 1671 1471
	Chumparun	Motihari Bettinh Gojnigungo Siewun Chuprah	0'44	0.80	0.08 8.10 0.08	0°45 0 52 1°00 2°23 0°86	0.32 0.38 1 19 0 08	0.00 0.12 1.27 0.14 0.14	0.82	5 7 5	1.10 0.89 4.59 4.64 8.81	5:96 6:26 5:10 6:54 6:45	6°18 8°99 6°82 7°29 6°55	12187 12 23 11 140 1 4189 18185	15/9 19/7 15/8 15/9 12/0.
PUTH BRITAR	Shahabad	Buxar Dehree Bhuboosh Sassersm Arrah	0.18	9*03	0.45 0.50 0.50 0.19 1.45	0'53 0'61 0'09 0'09	3'89 1'56 1'50	2:19 1:50 3:40 1:00 0:14	0°50 0°0% 0°50 0°93 0°81	7 5 5 5	6.81 8.46 6.70 2.77 1.77	8"78 % 11 7'80 4'54 2'64	6.85 7.87 6.83 6.25	19,173 86,21 00,00 10,00	11/86 15/46 12 66 12 86
	Gyn	Anrungshad. Gya Nowadah Jehanabad	0.18	0°56 0 58	0°26 0°17 £°18	0°78 2°08	1·33 2·27 1·33 1 11	0°92 0°37 0°25 0°70	1'56	6 5 5	8:26 6:82 2:47 7:64	6:30 8:79 5:54 9:74	7.78 6.81 6.97 6.72	16'54 25 24 14'03 21 00	23°P 23 50 13 40 12 50
4	Patna	Patna Disapore Behar Barrh	0'58 0'55	0 16	0°14 0°19 0°98 0°36	1:87 0:35 0: 6 0:00	0.31 0.02 0.31	0.31	0°43 0°10	5 5 4 5	3°13 0°95 8°65	4 44 2:35 6:79 5:52	6143 6177 7 58	19'64 13 43 32'84 19'00	2 6 15 P 2 6 12 1 3 4 13 1 3 5 1 3 1
	Monghyr	Begomerni Mumbyr Junui	400000	0.45 0.30	0.81	0182	0.07 0.18	3:35	0°78 0°86 2°20	\$ 5 5	6:05 2:84 4:14	7°44 3°28 5°45	7.8 b 7.8 b 7.8 d 7.8 d	29*14 19:87 12:80	18790 15744 14 3
	South Bhazul-	Hhagulpore	9.09	0°23 0°66	1.70	0.38	014	98.8 0F.0	0.74	7 8	3°94 4'09	4°20 6°04	6131 7103	18.61	10 007 16 77
	Southal Per- gunnalis,	Rajmehal Godda Pakour Nya Doomka Deegdur Jamtara	0°02 0°97 0°58 0°68 0°61 0°61	0°38 1'34 0'12 1'04	0.39 0.39 0.39	1'67 0 31 1'15 0'37 0'46 8'90	0°84 0°33 1°18 0°56 0°49	0°10 1°89 1°75 8°00 2°47	0°12 0°38 1°40 1°52	7 6 6 7	4*80 4*83 8*29 5*48 6*78	8°14 6°76 6°20 7°63 6°60 8°80	8186 6172 9155 7183 8126	14-14 1 5 03 28-07 22-162 23-35 22-07	2) 169 13:74 22:01 19:13 19:15
SAG-	Huzaribagh	Pachamba Hazaribagh Sentaguri Malfudi Hills	0°20 0°13 0°23	0.10	0*05	1:48 0:87 0:20	0°83 1°71 1°94	0'42 0'24 1'60 0'53	0.02	7 7 5 5	8:64 8:64 8:04 3:69	0.03 11.49 0.02	7'67 H'17 H'25 5'52 7'67	14145	1
	Lohardugga	Ranchi Palannow	0145	0'12	0.18	0.77	0.83 0.68	1193	1.40	7 6	1.18 8.64	1479	8:32 7:80	30°37 11°40	17:72 3 a at
	Manbhoom	turulia Gobindpore	0.41	0°81 1°18	81.0 6.11	0:06 1:48 0:18	0:09 1:76 3 65	0.21	1.02	6	8114 6183 9183	8°26 11'68 0'51	8'61 R'13 R UD	17:81 27:21 15:33	19 1

replandion Indicates that no cain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns and

SUMMARY OF METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 20TH JULY 1883:

The meteorology of the past week has been different in character to that of the previous weeks of the present south-west monsoon period. Moderate monsoon winds were blowing at the head of the Bay at the end of last week, and were giving light to moderate rain over the greater part of the province. The partial break in the rains which had extended to the whole Province for some days had given way, and was then confined to North Behar and Bengal. The meteorology of the past week illustrates the effect of the combination of a strong monsoon current from the Bombay coast blowing across the Central Provinces, and of

a moderate current from the Bay of Bengal.

It was noted in last week's report that the barometer was falling over the Province, and that light to moderate rain was falling except in North Bengal and Behar. The barometer continued to full steadily, and rainfall became more general and larger in amount on Saturday and Sunday. The Bombay current had been blowing strongly for some days across the Bombay coast into the Central Provinces and Central India. On Monday it began to make itself felt in Bengal. Westerly winds set in at the Chutia Nagpur stations and at the more southerly stations in South Behar. They gradually extended eastwards and increased in strength, so that on Wednesday and Thursday westerly winds obtained over Orissa, Chutia Nagpur, Behar, South-West Bengal, and the north-west angle of the Bay. The effect of the inrush of these two moist currents into Bengal was to produce a large amount of ascensional air motion, and therefore to continue the fall of the barometer, so that on Thursday and Friday pressure was considerably below the normal. Bengal thus became a large area of shallow barometric depression. Skies in consequence of the general condensation accompanying ascensional air motion became overcast over the whole Province, and favourable rain has fallen in every district. The amount has been large and above the average in every district except the Pooree, Manbhoom, and Singbhoom districts. Excessive rain has also fallen over a part of South-West Bengal the centre of which is Ranigunj, which has been for some months' past a centre of unusually heavy rainfall. The westerly winds began to weaken on Friday, but still continue in Chutia Nagpur and South-West Bengal, and hence fairly general rain is still being received over the Province. The rain that occurred during this intermingling of the two branches of the monsoon current during the past week has been heavier and more general, and more uniformly distributed, than any that has yet been received up to date during the present south-west

The variations of the elements of meteorological observation from their normal values not very large, but are important. The barometer was very high at the beginning of the week, but gradually fell until it was considerably below the average. The mean barometric values for the week are hence slightly above the average at all stations except at Gya and Purneah. The mean temperature of the week in consequence of the prevalence of overcast skies, and of heavy rainfall than the normal, is below the average at all stations except Durbhunga, where the rainfall was not large. The deficiency of temperature averages 1° over the Province, and is greatest at Dacca and Gya, for which it is 2°4°. Winds increased in force during the early part of the week and were above the normal strength generally during the last three days of the week. The sky has been thickly clouded at all stations except Motihari, for which the average cloud amount of the week is only 2.

The following table gives the usual summary of the temperature and rainfall data for

The following table gives the usual summary of the temperature and rainfall data for each of the seven meteorological stations of the Province:—

100		_		Tuns	BRAT	URR						RAII	PALL.	-			
34		g week.	west.	Avers	ge for	week.	above or		Of wee	ds.	R	niny di	n.3°0.		e let	Since 15	May th.
Matrono Distri		Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week a	Average.	Normal avorage.	Variation.	Average number in work.	Normal average namber.	Variation.	Average.	Normal average.	Average.	Normal average.
Orisaa Bouth-West Ben East Bengal North Hengal North Henar South Behar Chutia Nagpur	gal	92.0	74°6 71°4 69°8 74°1 70°0 73°4 73°6	86'6 87'6 84'9 86'8 89'0 91'1 82'8	78°0 77'8 36'7 77'7 76'4 78'8 74'0	82:6 82:7 83:3 83:3 83:8 84:0 70:6	-0'8 -1'7 -1'8 -17 -0'2 -1'0	8:13 6:84 8:77 8:60 2:69 4:50 8:54	3*26 2*82 3*46 2*33 2*31 2*32 8*97	-0·15 + 4·08 + 5·29 + 2·27 + 0·59 + 2·16 + 0·67	8°0 7°0 8°8 4°6 8°4 6°1	4'0 4'4 5'1 4'3 3'6 4'0 4'8	+1'0 +1'6 +1'9 +1'3 +1'0 +1'3 +1'8	9:33 (3:07 6:65 5:03	6:83 7:11 9:76 0:05 7:45 7:53 8:17	28:10 33:62 31:67 27:49 32:51 16:08 18:54	18'82 20'70 84'32 30'18 15'82 10'98 10'30

Very favourable rain has hence fallen throughout the Province during the past week. Orissa has received its normal amount. Elsewhere, except in the more southerly districts of Chutia Nagpar, abundant rain has fellen. In South-West Hengel and East Bengal an average of from two to three times the normal amount has been received, and in North Bengal and North Behar the proportion is somewhat less, but is large.

The general character of the rainfall is also shown by the fact that the number of

rainy days exceeds the average by one to two days in all districts.

The abundant rain of the past week, following the partial break of the previous week, has increased considerably the total rainfall of the present month up to date, so that it is considerably above the average in Orissa, South-West Bengal, East Bengal, Chutia Nagpur and South Behar. There is a deficiency over the greater part of North Bengal and North Behar which is most marked in the Rungpore, Dinagepore, Rajshahye, Purneah, North Bhagulpore, Durbhunga and Mozufferpore districts. The districts in North Bengal have received deficient rainfall throughout the whole of the present season. The deficiency has, however, been due rather to lightness of the showers than to absence of cloud, and to a

smaller number of rainy days.

Saturday, the 14th July.—Pressure increased at all stations except Gopalpore. The increase was large in amount in North and East Bengal and in North Behar. The cyclonic vortex formed during the previous week at the head of the Bay was at 10 a.m. in the neighbourhood of the Orissa hills. Pressure was above the average in all parts of the Province except Orissa, and was very high in North Behar, where it was more than a tenth of an inch above the normal. Temperature diminished in South-West Bengal. It was 1° below the average in Orissa. It had decreased slightly in Behar, but was still considerably above the average. The mean temperature of the past 24 hours was 3° above the average in Behar and 2° in Chutia Nagpur. Winds were generally normal in direction. South-e steely winds had set in over the whole of the north of the Bay, and were of moderate strength. The westward motion of the cyclonic vortex caused the winds in Orissa and South-West Bengal to draw round to directions between east and south-east Winds were easterly in North Bengal and Behar, and were slightly stronger than they were on the 13th. Humidity increased in nearly every part of the Province during the preceding 24 hours. The amount of cloud was also larger and sky was overcast at a considerable number of stations. General rain fell in East and South-West Bengal, Orissa, and Chutia Nagpur, and local showers over the remainder of the Province, excepting in South Behar, where the break in the rains continued. The rainfall was generally light to moderate in amount, the only falls exceeding two inches being 3.48 inches at Bogra, and 2.03 inches at Nowkilla (in the Bogra district).

Sunday, the 15th July.—A rapid recovery of pressure took place during the proced-24 hours. The rise was greatest in Orissa, where it was mainly due to the westward ing 24 hours. movement of the cyclonic vortex into the Central Provinces. Pressure was now considerably above the normal pressure of the day by amounts which ranged from '04" at Durbhunga to '15" at Dacea. Temperature continued to fall in Behar, and now varied from the normal temperature by small amounts over the whole Province. In Bengal and Orissa the mean temperature of the past 24 hours was 1° above the average for the day. The highest temperature recorded in the Province was 97.4° at Buxar. Moderately strong monsoon winds prevailed at the head of the Bay, and gave rise to winds of slightly greater intensity than the average over the whole Province. Winds were southerly in South Bengal, south-easterly in Central Bengal, and easterly near the Himalayas in Behar. The sky was overcast at the great majority of stations, more especially in Orissa, South-West and East Bengal. Fairly general rain, light to moderate in amount, fell over Orissa, South-West Bengal, East Bengal and Chutia Nagpur and also in North Bengal. The only fall exceeding two inches was 2 41 inches registered at Noakholly. The rainfall in Behar was, as on the 14th, limited to a few local showers of no importance.

Monday, the 16th July.—The changes of pressure of the preceding 24 hours were large and rather important. The barometer continued to rise in Orissa, South-West Bengal, East Bengal, and Chutia Nagpur, but fell considerably in North Bengal and Behar, so that pressure was lowest in Behar. It was still considerably above the normal of the day by amounts which varied from '06" at Purneah to '16" at Chittagong. Temperature was slightly above the average in Orissa and North Behar, and was below it elsewhere. The deficiency was greatest at Dacca, where it was 5°. The greatest observed temperature during the day was 91.2° at Gya. Moderately strong monsoon winds were blowing at the head of the Bay, and gave ordinary monsoon winds over the greater part of the Province. Winds ranged from south-west to south-east in South Bengal. South-easterly winds which prevailed in North Bengal and North Behar. In South Behar and Chutia Nagpur winds were from the west or south-west, thus indicating that the Bombay current, which had been were from the west or south-west, thus indicating that the Bombay current, which had been chutia Nagpur and Original Research blowing strongly for some days, was extending to South Behar, Chutia Nagpur and Orissa. Humidity was high in East Bengal and North Bengal, and was increasing rapidly over the whole of Behar and Chutia Nagpur. Skies were overcast over the whole of the Province, with the exception of the western districts of North Behar. General rain occurred over nearly the whole of the Province. East and North Bengal and South Behar received moderate to heavy general rain. The rainfall was specially heavy in the Cooch Behar district. Cooch Behar received 7.61 inches, Mickligunge 7.3 inches, and Matabhanga 6.98 inches. The rainfall was light in South-West Bengal. Some heavy local showers were received in North Behar.

Tuesday, the 17th Ju'y.—Pressure decreased at all stations except Raneegunge and igoree. The fall of the barometer was small, except in South-West Bengal, East Bengal, and the central districts of North Bengal. It was largest at Mymensingh ('15"), and a slight barometric depression had formed in Central Bengal about which the winds were circulating cyclonically. Pressure was above the average of the day by amounts which varied from + '02

at Gya to '1" at Cuttack and Saugor-Island Temperature continued to diminish with the continuance of overcast skies and rain. The mean temperature of the preceding 24 hours was very slightly above the normal in South-West Bengul and Orissa It was 31° below it in East Bengal and 2° in Behar. Strong monsoon winds prevailed at the head of the Bay, but had shifted round to the west and were blowing from directions between south and south-west. Winds were south-easterly at Mymensingh and Commillah, easterly at Darjeeling and Julpigoree, north easterly in North Behar and westerly at Bhagulpore and Hazaribagh. The air was very damp in every part of the Province, and was almost seturated in East and North Bengal. Skies were overcast at all stations, except at the most westerly stations in Beliar. General rain fell over the whole Province, with the exception of Orissa, during the preceding 24 hours. The amounts were large in East Bengal. Bainfalls exceeding 5 inches were received at Atia (8.63 inches), Commillah (7.9 inches), Dacca 7.04 inches). Noakhally (6.09 inches), Nowgong (6.06 inches), Fenny, Chandpore, Munshigunge, and Madaripore. The rainfull was heavy over nearly the whole of North Bengal and South-West Bengal, excepting in the Midnapore, Hooghly and Howrah districts, and 24 Pergunnahs. Raneegunge received 6 8 inches. Amounts slightly exceeding four inches fell at Bogra, Muldah, and Dinhatta in Cooch Behar. Moderate rain fell over the whole of Behar and Chutia Nagpur, and a few light showers in Orissa and the adjacent districts of South-

West Bengal.

Wednesdan, 18th July -A rapid fall of the barometer occurred during the preceding 24 hours over the whole Province, greatest in amount in East and North Bengal and North Behar, over which it averaged a tenth of an inch. Pressure was now below the average except in Orissa and Chutia Nagpur. The deficiency was greatest at Purneah ('06"). The whole of North Bengal and Behar now formed an area of slight barometric depres-The whole of North Bengal and Behar now formed an area of sight barometric depression. Temperature was unusually low with the continuance of overcast skies and the occurrence of heavy rain. The mean temperature of the past 24 hours was 4° below the normal temperature of the day in South-West Bengal, from 3° to 6° below it in East Bengal, and from 2° to 4° below it in (Behar excluding Durbhanga). The highest day temperatures observed were in North Bengal. The highest maximum temperature (90.8°) was registered at Rungpore. Strong monsoon winds continued to blow at the head of the Bay. There was also a strong indraught to Bengal from the west, which was partly, if not entirely, the extension of the Bombay monsoon current. Winds were partly, if not entirely, the extension of the Bombay monsoon current. Winds were westerly to south-westerly at the head of the Bay, southerly in East Bengal and westerly over the whole of Behar and Chutia Nagpur. The air was slightly less damp in East and South-West Bengal than on the 17th. It was very damp and almost saturated with moisture in Behar and the northern districts of North Bengal. The sky was overeast over the whole Province General rain fell over the whole Province. The rainfall was heavy in East Bengal, South-West Bengal, South Behar, Chutia Nagpur, and at a few statious in North Bengal. The rain was more uniformly distributed than on the 17th, and no excessive rainfalls were recorded Rainfalls exceeding three inches were received at Raneegunge (3.4 inches) Beerbhoom Spory (3.12 inches), Lallbagh (3.82 inches), Azimgunge (4.22 inches), Lalgolla (3.52 inches) and Silligori (3.9 inches).

Thursday, the 19th July .- Pressure again gave way over the whole Province. fall of the barometer was generally large in amount and was greatest in South-West Bengal. Pressure was very low, but was nearly uniform over the whole of Bengal and Behar, so that it formed a large area of shallow barometric depression. Pressure was below the normal of the day by amounts ranging from '03" in Orissa to '12" at Burdwan. Temperature was everywhere below the mean. The deficiency averaged 4° in Chutia Nagpur and Behar, 3° in South-West Bengal, 2½° in East Bengal, and 2° in Orissa Strong monsoon winds continued at the head of the Bay. In East Bengal winds were south-easterly and in North Bengal easterly. Over the greater part of Behar and in Chutia Nagpur, Orissa, and South-West Bengal they continued to blow from the west, and were the continuation of the westerly winds of the Central Provinces and Central India. The air was slightly damper in Orissa and South-West Bengal. Skies were overcast over the whole Province, excepting the most westerly districts of North Behar. General rain again fell over the whole

The rainfall was excessive over the 24-Pergunnahs, Hooghly and Burdwan districts. Rainfalls exceeding four inches were recorded at Burdwan (10.2 inches), Hooghly (9.15 inches), Buseerhat (5.28 inches), Barrackpore (5.1 inches), and Baraset (5.1 inches). It was heavy over the whole of Chutia Nagpur, the greater part of South Behar, and South-West Bengal. Over the remainder of the province, i.e. North Behar, North and

East Bengal and Orissa, it was moderate in amount.

Friday, the 20th July.—Pressure was lower than on the 19th over the whole Province, with the exception of a small part of South-West Bengal, represented by Saugor Island and Calcutta, and of North Bengal represented by Julpigoree and Darjeeling. It was very low and differed from the normal by amounts which ranged from '06" at Cuttack to '17" at Burdwan. There was no definite centre of barometric depression; and pressure, although very low, was remarkably uniform over Behar, Chutia Nagpur, and the greater part of Bengal, where the readings ranged from 29 45" (at Burdwan and Bhagulpore) to 29 50" (at Rampore Beauleah and Commillah). Temperature was much below the normal. The deficiency of the mean temperature was greatest in Oriesa, where it averaged 5\footnote{0} and at Gya where it was 5°. It averaged 1\footnote{0} in South-West and East Bengal, South Behar, and Ohutia Nagpur. Very strong south-westerly mensoon winds were new blowing at the head

of the Bay across the Bengal coast. The westerly winds in Behar and Chutia Nagpur, due to the Bay seroes the Bengal coast. The westerly winds in Benar and Chatta Nagpar, due to the strong current from the Bombay coast across Central India, which had been blowing steadily for three days, now began to diminish in strength and retreat westwards. Winds were south-easterly in East, and North Bengal, and in North Behar, and were variable in South Behar. Westerly winds continued at Hazires are to the Province over the North Province in North Province was above the average in every part of the Province, except at the northern stations in North Bengal. The sky was less clouded than the 19th. It was overcast in Orissa, South-West Bengal, East Bengal, Chutia Nagpur, and at the southerly and south-westerly stations in South

General rain fell during the preceding 24 hours in every part of the Province except North Bengal, where the rainfall was limited to a few local showers. The rainfall was less in amount than on the 19th, but was more uniformly distributed. It was heaviest in the Cuttack, Moorshedabad, Chittagong and Backergunge districts. Rainfalls exceeding two inches were received at Kandi (3.55 inches), Cox's Bazar (3.2 inches), Tajpore in the Durbhunga district (2.77 inches), Burrisal (4.52 inches), Jehanabad in the Gya district, Cox's Bazar, Chittagong, and Jamui in the Monghyr district.

MEMORANDA.

THE subjoined table exhibits the vital statistics of the first class Municipalities in Bengal

for the week ending 7th July. The figures in this table indicate:—
(1.) That births and donths were registered in these Municipalities at the rates, respectively, of 16.9 and 26.8 per 1,000 of population, against 15.8 and 25.4 per 1,000, respectively, in the preceding week ending 30th June.

(2.) That the undermentioned Municipalities returned the highest proportions of births

and deaths :-

CLES .	$\boldsymbol{\mathit{B}}$	irths.			Deaths.		
			katio per mille,				Ratio per mi'le.
Santipore	0 0		28.0	Gya			91.5
Gya			28.0	Uterparah			47.2
Poori			25.7	Poori			47.1
Hughli		0 0	25.5	Darjiling			37.0
Midnapore	• 0		248	Burdwan			32 0
				Serampore	0 0		31.4
				Patna		0 0	30.2
				Suburbs of C			29.4
				Mozufferpore			26.8

(3.) That the mean rates at which the several death-causes proved fatal, in comparison with the rates of the preceding week, were :-

					,000 during th 8 anding
		**		7th July.	30th June.
				.6	.5
	• •			11.4	10.3
ints				3.6	3.6
				.5	.6
				6.4	6.6
	ints	ints	ints	ints	week 7th July. 4.3 .6 .11.4 3.6 5

indicating that there was an increase in the death-rates from cholera and fever, equal mortality from bowel-complaints, and no material difference in the fatal results from the other disea

(4.) That cholers, small-pox, and fever were conspicuously fatal in the following towns :-

16)	Choler	a.		Small-pox.		F	ver.	
		Ratio per milie.		R	atio per mille.	,	R	atio per millu
Poori (5.)	That the	. 38.2 . 15.0 mortality	according	to Class of	r Nationa	Gya Purneah lity, excluding , stood as follo	that	23·2 20·8 among
-Hararere	or Arrotte	mao mou	in only the	very	unicipatity	Re	tio per	
= *-	Christians Hindus				***		47·2 28·2	

Mahomedans 22.6 (6.) That with regard mortality referable to Age, the highest death-rates returned by :-

			Ratio per mille,
Infants (under 1 year)	 • • •		204.7
Children (of 1 and under 5 years)	 		49.1
Old men (60 years and upwards)	 4 10 1	1 000	55.7

and the lowest by adults, aged 10 and under 15 years, viz at 13 1 per 1,000 of the living. F. W. A. DEFABECK,

The 23rd July 1883.

Officiating Sanitary Commissioner for Bengul.

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OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 23rd July 1833.

Offy. Sanitary Commissioner for Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 15th to 21st July 1883.

			bright	10 de	1	HEPER	ATURE.		E	Tenon	BTRT.		WIND,			
Month.	Date.	Maximum 14 con.	Number of bours of l	Mean pressure hargmates at 32º Fahr.	Mean.	.dazimum.	Ranges	Muisono.	Mean wet built.	Vapour tonerion.	frem pornt.	Hamility.	Prevailing direction.	Miles regarded.	Rain.	W BATHER,
1683.		0		Inche	6	0	0	6	0	Inches	0	%			Lucia	
July	15th	189.2	Nil	29 639	82.0	86.4	17.4	79.0	79.7	0.086	78-8	90	SSE and S	106	0.83	Cloudy, o, g, d, p
10 to	16th	187-7	1	*646	98:4	8:-7	8 6	79-1	80.8	*988	78-9	87	SW and SW by W	168	0 90	Cloudy, o, g, p.
- 10	17th	1169	Nil	-599	89:1	85.6	5.4	80.3	79.6	1981	78 6	83	8W	180	1.86	Cloudy, o, g, a b
94	18th	148 5	Nil	-528	79.4	95.4	10.2	74.9	77.0	*900	76.0	90	SW and WSW	119	0.23	Cloudy, o, g, d, p.
20	19th	148-5	4	*417	80.0	85 6	96	76.0	77.7	*911	78:4	87	W and SW by W	244	1.18	Cloudy, o, g, d, p.
	90th	143.5	6	*486	88 0	80.6	D-4	77-2	79.1	-941	77.4	88	SW by W and SW	189	0.70	Cloudy, o, p, d.
200	Slat	161.5	3	*490	82 4	87.7	10.2	77-2	78.8	.888	77.8	86	SW by W and S	161	0.80	Cloudy e, d, p.
	The	avera	ke br	ensure of h	of the	n corr	espuu						, 8, G. Office			29·540 29·509 Hours. 18
	The The	avera(extrem maxim	ge ter ne va	perature nperaturation temperaturate	of te	the correction	orres	poudi aurin seve	g the	BEVEL	nayı		days		.00	81·9 83·5 12·8 87·7 Effec.
														, ,		15s.
	The l	highes	t pre	saure of	the	wind	on or	squ	are f	oot de	ring	the	seven days		N	ot measurable
			rainta	ve ham	ndity	auric	ig the		n day	78			· · · · · · · · · · · · · · · · · · ·	ffice	•••	87
	The t	rvorag	e rela	ative h	umidi	ty of	the o	Dires	jonai	rrk ha	rioa (or 2	24 yours, S. G. O	шоо	*01	86 Incom.

tures are obtained from self-registering thermometers. thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four

feet anove the ground. The parometer readings are corrected approximately to those of the standard Newman's No. 86 formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formuta.

The direction of the movement of the wind are taken from the trace of a Beckley's augmograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, p passing temporary showers, t thunder, d drizzling rain. JOHN ELIOT,

METROROLOGICAL OPPICE, INDIA, The 23rd July 1888.

For Metaorological Reporter to the Guvernment of Indis.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 15th to 21st July 1883.

Mowrm.	Neem.	Maximum arm.	Innge.	Minimum.	Mean wet balb.	Vapour tension.	Dew point.	Humidiby.	Rain
1888.		1		1					
	0	0	0	. 0	0	Inches.	0	9/	Inches
	82.8	87.0	8.6	79.0	70.8	*885	78.8	80	0.63
	8::8	87.8	8.9	79.6	80.7	1 021	79.9	91	0 13
	82.3	86.3	5.3	81.0	80.3	1:008	79.6	91	0.04
	783	85.8	9.6	75.7	76.8	4.68.	75-8	92	1.46
	80.7	86.4	6.3	77 1	78.2	.823	77'B	92	1.17
20th 21st	81.9	88:3	9.7	77'A 78'0	80.0	1983	78 7	90	0.54

			0
The mean temperature of the seven days		***	81.4
The extreme variation of temperature during the seven days	9 00 0		12.6
The maximum temperature during the seven days			88.3
			%
The mean relative humidity during the seven days		• • •	91
			luches.
The total fall of rain from 15th to 21st July 1883			4.26

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METROBOLOGICAL OFFICE, INDIA,

JOHN ELIOT,

The 23rd July 1883.

For Meteorological Reporter to the Gout. of India.

Report on the Fluctuations in Traffic on the Northern Bengal State Railway for the month of June 1883.

GENERAL REMARKS.

Though the figures given in the comparative statement below represent the traffic lifted during the month of June, the dullest month of the half year, it will be observed that, as compared with the same period last year, an increase of 63,658 maunds has taken place. The principal increases have occurred in Food-grain. Gunny-bags, Piece-goods, Railway material, and Salt, while Tea, Tobacco and all other goods, have slightly declined. The remarks below will explain these fluctuations.

INCREASES. Ale
Increased despatches under this head may now be looked for to replenish stocks.
Food-grain
This increase is entirely in downward traffic, and is due to slightly better prices offering in Calcutta. Mds. This increase is entirely in downward trame, and is due to slightly better prices offering in Calcutta.

Gunny-bags

This is a large increase for this time of year. It is now believed that this industry is firmly established. The demand for these bags for packing continues.

Jute

Mds. 8,495

The demand for these bags for packing continues.

Mds. 1,450

Small quantities of the new crop are already being forwarded, and a very early season for the northern districts is anticipated. The market in Calcutta is dull and very little business is doing. Material for the Dinagepore extension and coal for the consumption of the Locomotive Department make up this increase. Salt Mds. 82,175

Very large sales of salt have recently taken place in Calcutta, and despatchers have evidently seized the opportunity of stock ing local markets. ... Mda. 2.058 The demand for this article has apparently subsided. Sugar During the past two months the upwards traffic in this staple showed signs of improvement, but it would appear from the above decrease that this was only temporary. The local manufacture of sugar is increasing As already pointed out, comparison with the same period last year is unfair. The total quantity of tea despatched during the month was 14,316 maunds. This is only 725 maunds under last June's deliveries.

Tobacco

Mds. 5,966 There is little or no demand for any description of tobacco.
For Bispat the quotations are so low that business cannot possibly be done.

All other goods

Statement showing Increases and Decreases in Maundaye of Staples carried over the Line during the month of June 1883.

All other goods Mds. 21,929
Last year's coal for the Darjeeling Himalayan Railway was included under this head, but since January 1883 it has been matered under "Railway material" which will explain the decreases which have recently been noted under this heading.

	_					188	12	188	13.	Manal de	(C) 4-1/4-	Y	
1	STAI	PAJEN.				Up.	Down.	Up.	Down.	Total in 1882.	Total in 1883.	Increase.	Decrease
Ale Food-grain Ginny-bage Jute Pince-goods Hariway material Rail Bauma Ica Tobacco All other goods	000 000 000 000 000 000 000 000	***	*** *** *** *** *** *** *** *** *** **	000 000 000 000 000 000 000 000 000 00	000	565 46,186 163 181 156 6,191 7,755 80,320 1,211 179 62,002	\$1,978 3,643 6,287 86,089 50 4,397 90 15,041 46,027 15,460	1,186 41,560 494 83 9,661 58,707 68,567 755	00,006 1,648 13,474 38,132 4 2,033 128 14,516 59,157	565 97,465 3,486 5,463 36,765 0,921 12,151 36,920 1,501 15,041 45,443 70,862	1,184 1,04:904 1,649 13,988 38,295 9,465 41,040 68,493 54,510 30,443 64,683	9,496 1,490 3,434 30,489 32,175	3,051 546 722 6,195 31,621
			T	otal		1,61,808	1,74.782	1,99,023	1,90,685	3,36,680	8,90,308	*****	11562.

TRANSIO SUPERINTENDENT'S OFFICE; Suidpur, the 12th July 1888.

G. S. LEONARD, Traffic Superintendent.

Report of Fluctuation of Traffic on the Eastern Bengal Railway for the month of April 1883.

RASTERN BRNGAL BAILWAY COMPANY, TEAFFIC SUPERINTENDENT'S OFFICE, SEALDAM TERMINUS.

No. W43-264, dated Calcutta, the 4th July 1888.

From-C. F. CHADBURN, Esq., Acting Traffic Superintendent, Eastern Bengal Railway Company, To-The Agent, Eastern Bengal Railway Company.

I have the pleasure to forward herewith the usual comparative statement of traffic for the month of April last, as compared with the corresponding month of last year, and from which it will be observed that the gross weight carried over the line was manual 12,40,471, or an increase of manual 1,48,801 equal to about 184 per cent over that of 1882.

The principal fluctuations for the period under report are as follows:—

Although not equal to that of last month, the increase must still be considered as very satisfactory. The area under jute cultivation last year was far in excess of previous years, the yield being reckoned at 25 to 30 per cent greater; and it is gratifying to note that this additional contribution to carriage has been supplied almost entirely from our own stations and agencies, Serajgungs alone shawing maunds 41,000 over that for the same period last year. For loose jute in particular there was a large demand.

Under this heading is comprised principally linseed, mustard, and rape. The first the merchants have been buying in against a rise in the market; while in the latter (raposeed) a considerable amount of business was done in the way of expert.

Sugar 23,946 Mds.

Exportations of this commodity to the Buropean markets were very large, owing to a partial failure in receipt of the usua supplies from Cuba.

The extra outturn at the factories of Kissengunge, Chooadangah, and Alamdangah accounts for this increased maundage.

Tobacco 7,946 Mds.

A steady demand for export, with favourable prices, induced up-country believes to reduce their stocks.

Gunny-bags 12,691 Mds.

The greater activity in grain and other seeds demanded a larger supply of bags for the purposes of carriage, and the increase in this material must be ascribed to that cause. A good jute crop helped to this in no small degree.

Miscellaneous A505 Mds.

Is due entirely to large consignments of railway plant, &c., forwarded for the Dacca and Mymensing State and B. C. Railways.

Grain and pulse 25,609 Mds.

This improvement on last year is due to the fact of large arrivals of wheat and new rice, the former to meet "time bargains."

Decreases.

Coal and coke 44,273 Mds.

The same cause mentioned in last report may again be quoted as the reason for the falling off shewn in the carriage of these commodities, vix through the diversion of the traffic from the Railway to the Chipper canal.

Cotton 5,884 Mds.

Under this, the decrease is owing in a measure to the displacement of cotton last year by jute, for which there was a greater demand and yielded larger profits to the grower as the markets then stood; the markets at same time were very dull with but little enquiry for the month under report.

Salt 24,178 Mds.

The procuntry stocks were so largely replentshod after the reduction in duty last year, that the effect is still apparent by the decreased demand on the supplying depot of Calcutta.

EASTERN BENGAL RAILWAY.

Statement showing Increases and Decreases in Maundage of Staples carried over this Line for the month of April 1888, as compared with that of the corresponding period of 1882.

		0			Down.	Down.	Up.	Up.	Total.	Total.		_
DESCRIPTI	OH OH	GOOX)8.		1882.	1688,	1003.	1883.	1883.	1883.	Increase.	Degrense
Borne	000	400	69.6		***	*** **		140.00				
Canes and rattans	***	***	***		1,200	816	149	98	1,349	813	******	506
Caoutchoug		901			1,422	1,141	******	*** ***	1,422	1,141	*****	281
Cinchona		001			190	178	10/ 100	14 1 9	130	178	58	******
Coal and cohe		004	***		80,934	10,422	44,560	70.8:14	1,25,494	8: 246	******	44.979
Cotton, raw		000		001	11,528	4,737	47	1,0004	11,576	5 741	800 104	5,83
Do., manufacture		550	***	100	280	8,035	26,586	27,784	26.8 16	80,799	3,9 13	111.101
Chillien			000			400	1,364	6,063	1,354	6.053	4,199	*** ***
Drugs and mellicines		040	941		688	1,189	111	764	744	1.948	1.199	
Dyeing materials		***	444	***	9,377	12,676	4:1	60. 10.	9.784	12,475	9,897	*****
Pibrous products (gu			***		18,155	30,468	1.790	2,173	19,045	82,636	12,691	******
Fruits and nuts		***	***		258	216	727	688	986	804	******	8
Ginner	000	***	400		791	8,766	44 111	******	791	8,768	2,977	-
Grain and pulse			***	***	1,06,165	8.466	28,156	71.375	1.34.391	1,59,830	25,509	******
Gums and resins	001	***	***		63	,	69	1.67	115	147	82	*** **
Hides and skins	000	***	***		14,871	12,632	12	*** ***	14,383	19,633	******	1,75
Horne	000		***	00	68	148	60	46	119	194	89	
Jate. " serewed"	100	***		***	40.074	89,807	904 ***	101-01	40,074	89.807		26
Do., " auscrewed"		***			2.09,432	8,88,169	******		2,09,422	8,88,169	1,23,747	-
Lac	000	***	***	***	486	65	17	54	61/3	119		384
Leather	***	-11	***	800	7	8	190	271	197	274	77	-
Liquore	***	***			3		1.228	1 416	1.941	1,416	186	***
Metals and manufact		0		6.01	4,675	2,109	26,098	25,773	30,773	27.883		2,891
Mincellanooue	111		403	P 0 4	Bn,868	25,430	73,703	79,639	1.00,570	1.05,075	4,60	,
Usl	***		46.0	001	20		4.289	3,648	4,300	3,588		781
Орица	901	144	600	90.		*** ***	164	3,043	164	0,000	*** ***	145
Pante and colours	001	***	9.00	404	10	4	746	-894	700	808	******	857
Provisiona			400	000	8.121	4,825	8,197	8,906	6,318	8,230	1,919	
Railway material for		mation	***	001	-,			-9				140 640
Ditto do. fo	r Have	auco et	era Common	***	80,928	20,066	88,204	84,960	1.19.084	1.05,096	*****	14 .00
Rult				884	- /		BU, HUB	66.720	90.898	66,720	*** ***	14, 106
Saltoltre		100	- 1 0	161	*** ***	p=+ +0;	142	145	143	115	8	24,17
Sorda	***		0.00	11.1	26,717	87,014	6,443	6.833	83,17H	63.347	80.168	160 094
Silk	0.04		999	***	148	478	5	18	203	496	293	***
Spices	4 10 0	404	811	0.01	106	1,747	1,6 8	1,329	1.513		1,563	001 104
lisone and marble	00-	100	4.0.4			897	1,50	1,295	1,539	8,076		*** ***
Sugar	0.00	***		***	45,888	72.893			51,620	1,699	92 044	*****
Tea	+00	084	400	10.		714	5,938	2,674	1.028	75,567	93,946	000
Tobacco	***		441		1,010	49,408	800		40,021	794	000 000 67 (1.84)	909
W oud	447	1 0 4	***	10.0	41,436		885	864	6,786	49,967	7,946	9 600
Wool	894	000	884	001	9,261	234	3,643	2, 863	20	2,897	06	3,689
			otal		6,79,977	7,17,816	4.11,598	4.63.655	10,91,670	12,40,471	2,48,660	99,850
		-	o um i	***	01101011	1111020	-,41,700	2,02,000	24,021,100	10,91,670	99,850	00,000

1,48,801

1,48,801

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 14th July 1883 on 1,509 miles open.

10.7	COACHIN	G TRAFFI	C.		R AND MINERAL APPIC.	Other earnings	Total carnings.	TOTAL 7	MAIN-MILE	A RUE.
	Number of	Coneli		Weight carried	Receipts.	(estimated).	200ml Ometimes.	Coaching.	Morohan-	Total.
		Ra.	A. P	Mds. s.	Rs. A. P.	Ra. A P.	Ra. A. P.			
Total traffic for the week Or per mile of ransway	231 079	2,11,535	5 0 2 11	25,17 ,397 30	7,44,879 1 9 493 6 0	19,845 6 10 18 8 8	9,75,952 13 7 640 12 1	03,326	155,017}	\$18,314
For previous 1 week of half-	206,542	2,24,420	14 0	26,36.512 80	8,16,037 4 0	19,746 7 11	10,60,804 9 11	63,467	176,8151	847,254
Total for 2 week COMPABINON.	437,621	4,35,956	8 0	51,58,53 90	15,61,209 5 P	39,301 14 9	20,30,757 7 6	120,703	331,882}	608,629
Total for corresponding week of previous year Per mile of railway correspond-	178,4481	2,09,376	16 11	21,77,327 20	5,90,608 10 0	17,134 3 8	8,25,200 12 2	49,764	106,831	180,611
Total to corresponding date of previous year	377,700	158 4,23,158	15 6	47,30,810 20	19,63,291 16 6	12 5 13 29 400 8 4	17,05,851 5 4	105,000	239,695	885,591

EASTERN BENGAL RAILWAY

Approximate Return of Traffic for week ended 14th July 1883 on 2004 miles open.

	COACHING	TRAPPIC	C.	MERCHANI		PIG.	KKAL	Other or	rnings	(P-4-1)			Phain-milug	BUN.
	Number of	Concurr		Weight our	sed	Receip	EA.	(08511111		Total ears	ornaliko.	Coaching.	Merchan-	Tota
Total traffic for the week	53,259	Ra. 28,468	A. P.	Mds. 2,17,793	A .	Ra. 42,379		Rs 1,52	4. P	Ra. 72,178		7,065	0,559	34,0
Or per mile of railway For previous 1 week of half- year	259 67,673	136 34,144	0 0			204 38,103	15		3 0 0	349 72,410		8,0518	6,4002	14,
Total for 2 wooks	(120,981	02,412	0 0	4.10,887	0	90,562	U	1,66	0 0	1,64,623	0 (15,7294	12,0301	28,
Total for corresponding week of previous year Per mile of rational corresponding week of provious year	41,979	25,685	0 0	1		44,874	0		0 8 4	70,850	0 0		6,863}	13,0
Total to corresponding date of previous year	168,217	89,652		1	'	75,876		40		1,35,996			15,290	28,4

Includes Rs. 157 on account of Revenue steres.

PACTEDA	DENCAL	DATTELY	CONTRACTO
EASTERN	BENGAL	LEWILLEN AL	COMPLYNY

et e		111011	Iller	s ign, 157 on account o	I Take a	10,500	,40	1.100						
Bengal Central Railway			- ake	NGAL RAILWA Traffic for week or					Ranagh Dum-D			Miles op Section 202 ,, 141	en T	Potal.
		Rs. A. 1	r.	Мрв. в. 1	Ra.	▲.	P.	Вн. д. г.	Ru, A	A.	P.			-
Total truffic for the week- kanachat Section	2,587 7,796	720 0 800 0	0	11,745 0 8.602 0	256 67	0	0	11 0 0 7 0 0	996 972	0	0	276	505 83	5 0
Ranaghat Section	667	35 <u>9</u> 68 0	1 8	586 1 603 26	12	11	5 3	0 8 6	48 08	0	0	490111	100.00	****
Kan-ghat Section Dum Dum do.	2,748	743 0 814 0	0	18,745 0 452 0	100 37	0	0	11 0 0 10 0 0	854 861	0	0	27-1	878) 67	
Runashat Section	7.6 4174	1,479 0 1,712 0	0	30,400 0 9,054 0	85M 114	0	0	22 0 0 17 0 0	1,850 1,833			8850 1,1303	6091 120	
Total of both Sections	20,147	8,184 0	0	39,544 0	460	0	0	80 0 0	3,683	0	0	1,087	7233	2,6

PATNA AND GYA STATE RAILWAY.

Approximate Return of Traffic for Week ended 30th June 1883, on 574 miles open.

52	COACHIN	O TRAFF.	IC.		MERCHARD		AND MINI	BRAL	Other ea			Total earning		C THAIN-MAL	me Rty.
O en	Number of passongers.	Conch			Weight Carrie	rd	Receipte	ψ.	(estim	as tore	ul.	217001 000 00100	Compling.	Morchan- disc.	Total
		Ra.	٨.	P.	Mdn.	B.	B. d	. P.	81.	٨.	P.	Rs. A. P			
Total traffic for the week Or per mile of railway For provious 259 weeks of half-	8,041 160	4,617 80	ii	0	57,850 2 1,002 8		3,815 1	5 0 0 10	83	3 7	8	0,514 8 148 13 3		888	2,21
JOH 000 111 091	\$15,108	1,64,213	7	ß	8,90,525	0	77,689 1	3 3	2,559	Ø	6	2,41,295 10 1	43,872	10,535	09,50
Total for 25) weeks COMPARISON.	524,040	1,69,980	(1)	ß	D,47,876 S	50	81,343 1	1 8	2,035	ŋ	6	2,62,803 13	10, 610	17,302	Utie
Total for corresponding last six days of previous year. Per mile of railway corresponding perfod of previous year.	• 6,034	† 3.750		8	* 26,191 1	-	† 8,201	1 5	† 583		1	7 7,541 5 E		* 1,244	• 3,50
Total to corresponding date of previous year	202,095	1,87,811		0	9,10,034	4	1,00,508	7 0	8,876		4	2,91,152 O		89,7094	70,655

BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

Letest return		Longth	Racutt	76 7	02	week end:			TOTAL			PTO PHOM 1 VARY	4T	(T)=4-3 (Total	Percentag
received.	Hame of Railway.	open	10th June	1881		9th June	180	18.	To 10th		ne	To 9th J.	une	Total inci		decrease	of increase or decrease
1863.		Miles.	Ro.	A. 1	P.	Re.	٨.	p.	Ra.	4	. P.	Ro.	A. P.	Ro.	A. P.	Re. A. P.	Ba.
6th June 9th Ditto	Northern Bengal Tirhoot Calcutta and South-Bastern	280 1581 48	84,868 18,725 2,530	0 0	0	36,746 19,314 5,946	000	0	8,67,076 3,14,641 82,668	000	0	10,45,887 8,79,238 1,87,301	0 0 0 0 0 0	1,78,791 64,397 84,729	0 0 0 0	00007g	+20 +20 +66
Ditto	Halhati	87 è	1,801	0 (•	1,618	•	0	32,860	0	0	38,160	0 0	5,830	0 0	*****	+10
	Total	449	51,921	0 0	0	65,623	0	0	12,97,469	0	0	16,(4),096	0 0	3,03,287	0 0	******	+ 23

(a.)—This column includes the supplementary figures for the quarter ended 31st March 1888.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Weekly Statement of Traffic Receipts.

			WREE BEDIEG	TOTAL RECEIPTS 1	FROM 18T JANUARY			Percentage
The latest return received.	copen.	17th June 1582.	16th June 1883.	To 17th June 1863.	To 16th June 1883.	Total increase an 1883.	Total decrease in 1885.	increase or decrease
16th July 1863	80	Ra. A. P. 6,503 7 9	Re. A. P. 10,711 6 9	Ra. A. P. 1,57,547 7 8	Rs. A. P. 1,74,894 15 8	Ra. A. P. 17,287 8 5	Ro. A. P.	+1018

Calcutta, the 17th July 1883.

GILLANDERS, ARBUTHNOT & Co., Agente.

[REGISTERED No. 29.]

No. 31 of 1883.



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 1, 1883.

OFFICIAL PAPERS.

Non-Subscribers to the Gazzetz may receive the Superiment separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal as reported to Government during the week ending the 28th July 1883	1151	Births and Deaths in the First Class Municipalities in Bengal during the week ending 14th July 1885	1102
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ERRATA.

RETURNS OF JOINT-STOCK COMPANIES FOR 1882-83.

At page 1062 of the Supplement to the Calcutta Gazette of the 18th July 1883, the Hong-Kong and Shanghai Bauking Corporation "Limited" was erroneously shewn in the Returns of the Registra of Joint-Stock Companies as having sustained a loss instead of as having cleared a profit of \$7,64,797.38 during the year 1882-83.

The entry in Statement No. VI should therefore run as follows:—

No. VI.

Statement showing, in order of registration, the numbers and names of Joint-Stock Companies on the Register on the 31st March 1883, with their nominal and paid up capital, and their profit or loss as per Balance Sheets received, and date of such Balance Sheets.

Profit. Loss. Profit. Loss. Rs. Rs	berne by Centany.	Names of Companies.	Du'c of registration,	Nominal capital.	Paid up	PROPIT O PER LAST SHEET	R LOSS AS BALANCE PILED.		REMARKS.	
221 Hong-Kengand Shanghai Bank - 7th April 1960 1,12,50,000 1,12,50,000 7,65,787 30th Dec. 1882 Capital 850,000	Numb gutar exch		10,1000	,	- Compression	Profit.	Loss.			
221 Hong-Kengand Shanghai Bank- 7th April 1860 1,12,50,000 1,12,80,000 7,61,787 30th Dec. 1882 Capital 850,00	1			Ro.	Rs.		Ru.			
and Componentials, and	221	Hong-Keng and Shanghai Bank- ing Corporation, Ld.	7th April 1860	1,12,30,000	1,12,80,000	7,61,797	1	30th Dec. 1882	* Capital \$50,00,000 Front \$7.04,797	33.

LIBERALITY OF BABOO RUP LALL DAS AND BABOO RUGHUNATE DAS OF DACCA.

No. 1003, dated Calcutta, the 31st July 1883.

From-Colman Macaulay, Esq., Secretary to the Government of Bengal, Municipal Department,

To-The Commissioner of the Dacca Division.

I am directed to acknowledge the receipt of your letter No. 506L, dated the 16th instant, stating, for the information of Government, that Baboo Rup Lall Das and Babu Raghupath Das of Dacca have made a donation of Rs. 10,000 (ten thousand) for the purpose of extending the embankments along the river, known as the Buckland Bund.

2. In reply, I am desired to request that you will be good enough to convey to these gentlemen an expression of the Lieutenant-Governor's appreciation of their liberality and public spirit. The correspondence will be published

in the Calcutta Gazette.

No. 506L, dated Dacca, the 16th July 1883.

From-N. S. Alexandra, Esq., Officiating Commissioner of the Dasca Division, To-The Secretary to the Government of Bengal, Municipal Department.

I have the honour to report, for the information of His Honour the Lieutenant-Governor of Bengal, that Baboos Rup Lall Das and Raghunath Das, residents of this town, Dacca, have very liberally made a donation of Rs. 10,000 for the purpose of extending the embaukments along the river facing which is known as the Buckland Bund. As this will be a work of real utility and for the public good, I would recommend that the thanks of Government be given to the donors, and the matter of the gift published in the Gazette for general information.

Rainfall, Weather, and State and Prospects of the Orops

Statement showing Rainfall Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 28th July 1883.

	No.	District, and date	of	Rainfall at Sudde Station is inches.	Character of the weather, state and prospects of the crops, and
В	ENG.	AL.			
		Western Districts			
	13	Bardwan, July	8 '83		Weather-hot with light showers of rain. Transplanting going on vigorously.
		Culma	0.04	7.42	Prospects fair.
	1	Rancegunge	***	3.03	
DITT	1 2		3 ,,	2.86	Weather-hot and cloudy, with rain at intervals. Transplanting of the paddy
- 6	1	Bishenpore	0 0 1	1:44	crop still going on briskly. Other crops doing well. Public health good.
		Maliara Khatra		1.53	
M	1 8		3 ,.	8·46 1·97	Weather-seasonable. Transplanting of rice crop well advanced. Prospects
BURDWAN		Rampore Haut	**	1.79	good. Prices of food-grains moderate. General health good. Some cases of
B					cholers in south of district.
	\mathbf{F}	Midnaporo, , 2	3 10	1.14	Wenther-seasonable. Paddy crop has suffered slightly from excessive rain in
	1 8	Hooghly, , 2	A	1.68	the Contai sub-division. Prospects favourable. Public health fair. Weather—seasonable. More rain is wanted both in Serampore and Johanabad.
		rrooming, %		1.00	sub-divisions. Prospects of crops fair. Public health good.
	1	Howrah ,, 80) ,,	2.310	Weather-cloudy and sometimes heavy rain. Crops flourishing. Sugarcane,
		Onlooberin		8.35	aus rice and jute growing fust ; amun rice being planted out.
	, 6	Central Districts 34-Pergunnaha, July 3		0.050	Weather but with consisted with Fundy come drive well (Consulation
	1	Total Summers, and o	7 90	8.35*	Weather—hot with occasional rain. Early crops doing well. Transplanting of amus going on briskly. Public health good.
	2		3 11	1.74	Weather-cloudy, rainy, and cool. State of crops fair. Mortality from favor
	1	Koonhten		2.27	increased. A few cases of small-pox reported from the Mcherpore sub-
DIVE	1	Meherpore Choosdanga		2.53	division
	1	Ranaghat	***	2:68 1:97	
PRESTORECY	8	Khoolus, . 2		1.55	Weather-showery and cloudy, Ploughing for amun rice still going on. Aus rice
365 #40	(has come up. Prospects favourable. Public health good.
10	9	1,	3 11		Weather-hot, with occasional heavy showers. Harvesting of aus crop will soon
-	1	Jhonida Magura	0.00	8.00	begin. A fair outturn is expected. Prospects of amus continue good. Fever
16.	1	Narail		2.21	reported from Sudder and Bongong sub-divisions.
		Bongong		4.70	
	10	Moorehedabad, p. 28		1 64	Weather-close, with occasional showers. The rain has done good to the stand-
	111	Dinagepore, ,, 27	7 '83	1:4	ing crops. Transplanting of amas continues. Public health generally good. Weather—hot with occasional clouds and rain. Rain is very much wanted. Bhadoi is to a certain extent suffering from, and transplanting of amas impeded by, want of rain. Rice selling at from 12 to 26 seers per rupee.
36	/ 12	Rajebahye, July 28	3 .,	0.49	Rain very uneven through the district, most on the north. Crops generally
DIVE.		Nattore		2.75	doing well, but heavy rain necessary.
-	18	Rungporo , 28	30		Weather-hot and cloudy, with slight showers of rain. More rain generally
7		Gaibanda	000	0.92	wanted for the transplanting of amus rice. Aus and jute are still being out. Muskalai is being sown. Cholera still somewhat provalent in certain parts
BERAE		Kurigram		0.83	of the district.
Cooca	14	B-gra. , 28	**	2.33	Less rain has fallen this week, and the weather has been rather close in consequence. Transplanting of amus paddy going on. Jute and augurcane doing well. More rain wanted. General health good, except a few cases of fever reported from Dhunat outpost.
8	15	P.bna. ,, 28	5.0	1.97	Wenther-hot and close with light showers and southerly breeze occasionally.
4	16	Darjeeling, 28			Prospects of crops good, and also health. Weather- seasonable. Harvesting of Indian-corn has commenced with average
RAJOHANTE AND		Darjeeting, p. 20	00		outrurn. Transplanting of paddy commenced. Tea outturn to date below a last year's Cholera still hanging about.
78	17	Julpigoree, " 28	09	7.81	Weather—seasonable. Bhadoi paddy and jute backward in places. Other crops
R		Cooch Behar, 38		4.68	promising. Cholera still lingering in Julpigores town and district.
	,	up to 25th.	9.0	9.00	Weather—generally cloudy and rainy. Transplanting of late rice going on, Cutting of early rice not yet anished. Prospects of jute continue good. Only
		Dinhatta	•••	9:47	a few cases of cholera heard of.
		up to \$2nd.	1		
	40	Mathabhanga up to 21st.	***	11.11	
4		Mackligunge up to 21st	**	9.93	
		Eastern Districts. Dacon July 28	100	2:54 V	Weather-sensonable. Ans paddy and jute are being cut. Sowing of shail and
. march	18	Manickgunge	00	2.40	roackin paddy going on. Sugarctue, jute, mug, maskalai, til, aman, and
		Munshigunge		2.78	bhadoi crops promising.
-		Naraingunge	000	2:11	Forther and and converte fair due and into hains and Drawcate of her
0	19	Farrecapore, w 28	86	2-12 V	Veather-cool and generally fair. And and jute being cut. Prospects of late rice crop are still fair; but it will suffer much if the rivers do not rise, or if
3		Madaripore	000	1.75	heavier rain does not soon fall. Rivers are unusually low, and rainfall is suill
DACCA DIVE.	20	Backergunge, " 26	10	4:11	very scanty. Sugarcane doing well. Public health generally good. Vesther—seasonable. Prospects of our crop good. Cultivation of sman going on. General health good. Cattle-disease continues in parts of the sub-division
				A. min . (1)	of Patuakhali.
1	21	Mymensingh, , 27	80	2.77 V 3.97	Youther-air warm and moist, with cloudy sky. More rain wanted in Jamelpore and Tangail. The wook's rain has brightened the prospects of the crops else-
		Jamalpore Kishoregunge	000	8:48	where. General health fair, but fever provalent in south-east.
		Atten	0.0 +	8-02	
		Netrokona	44.2	2.48	

N	îa.	District, and return		te of	Stat	iddei ion it ihes	state of health at date.
		L —roneld.	_		1		
East		Districts.—concl		81 '	83. 4.	84	Weather-rainy and hot. Prospects of crops fair. Transplanting of smus co
DIVN.		Nonkholly,		28		93	menced. Cholera and cattle-disease not yet ceased. Prices steady. Weather—generally cloudy. Moderate rain at times. Wind southerly. Ma mum temperature 841°. Ame paddy is being resped. Transplanting of am
	24	Tipperah.	10 miss	26 .	111		paddy continued. Weather—seasonable. Prospects of crops favourable. Jute and early rice a being reaped. Public health generally good.
70		Brahmunba Chandpore	Lin		4.		being ranged. I have bearing good.
CHITTAGONG	25	Chittagong Hill Trasta.	9.8	21 ,	8-9	5	Continued showers of rain throughout the week; strong winds south-west a south-east. Jum paddy doing well. Transplanting of our begun in plous
,		Hill Tipprah	11	25 ,	01	33	Weather—rather too dry for the season. Amus paddy is still being transplant. Public health good.
EH	IAR.						
	26	Patna. Ju	nly	28	3.6	1	Weather - seasonable. Sowing of bhadei crops continues. Transplanting of ri
1		Behar			. 5	10	seedlings commenced. Public health generally good.
		Dinapore Burh				65 02	
	27	Gya,	01	28		0 1	Heavy and almost continuous rainfall. Transplanting of paddy has commence
1				90		3 Nr	but, in common with other agricultural operations, is interfered with by a excessive rainfull. Cholera is still causing a considerable mortality.
	28	Shahabad, Buzar	0.0	28 ,		17 10	Weather-cloudy and fair at intervals. Rainfall plentiful. Prospects of ero on the ground favourable.
		Bhabooah			6.	95	
1	00	Susseram Durbhungu,		0.0	1 2	71	Weather-cloudy and showery, not very hot. All prospects good. Transplat
	29	out bauagu,	PF	20 1	Δ.	41	ing going on well, in some places very forward. Prices rising slight
		38		00		0.0	Health good.
	80	Mozusterpore, Hajeepore	0.7	28		88 99	Weather-cool and showery. Prospects of crops much improved by the ra Transplanting of aghani rice going on everywhere. Public health general
		Seetamurhe	D		. 1.	42	proced
	81	Sarun. Sewan	0-6	28 ,		00 38	Weather—cloudy, with constant showers. Sufficient rain general throughd district Prospects of bhadoi crops excellent. A spell of sunny weather desable for weeding purposes. Transplanting of paddy in low lands going
1	32	Chumparun		28	. 2	05	Makai in progress. General health good. Prices easy. Weather—cloudy and rainy. The rain has done good to the standing cro and appears to have been general throughout the district. Prospects
1	83	Monghyr J Beguserai	luly			41	bhadoi crops excellent, Public health good. Weather—hot and occasionally cloudy. Prospects of bhadoi and aghani orgood. Some cases of fever and cholera have appeared in Monghyr town a
1		Јишиі			4	77	parts of the district. t'ublic health generally good,
1	34	Hhaguipore,	P3	28		17 03	Weather—seasonable Prospects of crops good. Weather—showery; not sufficient rain. Rain much wanted for transplantin
	O.O.	Kissengunge		25	1:		crops otherwise good. Health fair.
1	0.0	Arrareah		.00	. 1:	18	
1	36	Maldab,	80	28 ,	1.	646	Weather—hot and cloudy, with occasional moderate showers; south-east wi prevailing. Prospects of crops continue fair, but more rain-is wanted for the growth. Prices of food-grains stationary. Public health good.
-	37	Southal Perghe. Deoghur	9.0	29 ,	3		A good deal of rain everywhere; a break would be welcome. Everything promit well; but a little dry weather is needed for late Indian-corn.
		Godda			2	97	
		ltajmehal Jamtara				61 12	1-00
	14 CT	Pakour				89	
215	SSA.						
(88	Cuttack, Ju	aly :	27 '	2	60	Weather- cool and cloudy. Sarad rice being transplanted. Beati rice being weeded and harvested. State of crops reported tavourably Common ri
}	89	Pooree, Khoorda	8.9	26		69 55	welling at from 20 to 24 seers per rupee. Public health generally good. Weather—rainy. Re-sowing and transplanting going on in some places. Westing has companied in the Khowsta subdivision. Prices stationary. Chel-
1	4.5						ing has commenced in the Khoorda sub-division. Prices stationary. Chole reported from Khoorda, abating in town.
1		Balasore, NAGPORE	90	27 .	1.	84	Weather—hot and cloudy with frequent showers Caltivation going on. Propoets of crops favourable. Public health good.
		Agency.					
	41		uly	27 '8	2.	92	Wenther-cloudy and seasonable. Prospects of bhadoi crops favourable. A facuses of cholors reported. General health good.
	42	Lohardugga, Palamow	20	28 ,	11		Weather—seasonable. Prospects of all crops on ground good. Cholera is creasing in Husainabad; fresh outbreaks reported from Chuttarpur (Palamos and Torpa and Balumath thanss (head-quarters.) Prices as before. No cattle
	48	Singbhoom,	Pa d	27 "	0.7	71	disease. Wenther-very little rain during the week; unusually dry for the season of t year. Agricultural operations in places somewhat retarded for want of rail Prospects otherwise promising, and all crops doing well. General heal
	44	Manbhoom,	, 5	29	1.8	6	good. Weather-rainy and fairly cool. The rainfall of the week has been well distributed. Prospects of crops most promising. Public health good.

Published for general information.

CALCUTTA, STATISTICAL DEFT.,

The 31st July 1883.

COLMAN MACAULAY, Secy. to the Govt. of Benyal.

Results of the Meteorological Observations taken at the Alipore Observatory from 22nd to 28th July 1883.

	. 18/12		bright	i i	7	nmenn	ATURE		1	lvenos	BTES.		Winn)	
Month.	d buste.	Maximum in sub.	Number of bours of	Ment presente into	Mezo.	Matienum.		Ministerium.	Mean wet bulb.	Vapour tenaton.	lew point,	Humdity.	Prevailing direction.	Miles recorded.	Казь.	Weather.
1883		—		Incho.	desired to the second	~	177	0	9	Inches	6	*/0			Inche-	
July	22nd	166.8	7	20 471	84:0	88 7	9.5	79.2	80.4	0.888	70.0	80	SW by S and S	68	Nil	Cloudy, o, g.
	23rd	188 7	1	462	61 7	86.0	7.6	78.0	78-9	.079	79.4	90	SW by W, S and SSW	81	1:16	Cloudy, o, g, p, d.
95	24th	180.3	10	1458	84.3	88.0	₩8	79.2	79 8	.863	78 1	82	SW and SSW	169	0.08	Chiefly cloudy, o,
	25th	163 6	8	413	86.3	00.0	88	81.8	80.0	-989	78.7	81	SW by S and SW by	157	Nii	Chiefly cloudy, o,
10	96th	146'5	8	1375	83.6	87:	7.5	80.5	80.2	1.003	79.8	87	SW by W and W	81	0.31	Cloudy, o, 8, 4, t,
26	27th	165.0	7	419	83 5	91.0	11.8	79.3	80.0	0.878	78.5	86	W by N and S	102	C-37	Chiefly cloudy, o,
28	26th	149'0	4	1492	83 3	86.8	6.4	78.4	79.3	-963	78:1	87	S and SSW	77	1.63	Chiefly cloudy, a, g, p, d.
,	The	avera	ge pr	sure of essure of per of h	of the	corr	espon	-	•				, S. G. Office			29:441 29:527 Hours. 40
																e
	The	mean	temp	peratur	e of t	he se	ven d	ays ,.		1	0 . 0	• -				83.5
	Tue	extre	ge te	mperation	of te	mpera	ature	durin	ing po	eriod i	or 2	P AG	ars, 5. G. Office		••	83 1
	The	maxi	mum	temper	ature	dutii	ig the	seve	u day	18						91.0
West and the second																Miles.
20	The	highe	at vel	ocity o	f the	wind	in on	e hou	ır du	ring t	he act	ren	days			13
	-					, ,										lbs.
	The	highe	st pre	essure o	i the	Minq	on o	ne sq	uare !	foot d	uring	the	seven days		No	t measureable
	CHIA		1		. Anna				,							3/0
	The	meau	reiat re rei	ive hun	niaity umidi	tv of	the c	O Seve	nondi	ys ng ne	riod f	Fram 5	24 years, S. 6 ()	fh oo		85
	2		B			, ,		01100	pond.	as po	1100.		o w y clear by 0. 13 ()	mee	0 1	87 Inches.
	The	total:	fall o	f rain f	rom :	22nd	to 28	th Ju	ly 18	83					16.0	3.72
	Tue	Avera	Re IN	il or th	e cor	Leanno	uning	perio	ou tor	24 y	ears.	8.	G. Office			8 45
	Tue	total	Inii t	rom la	Jan	uary	10 28t	h Ju	iy 18	88		0	191			31.31
	The	MAGLE	Ro IN	mee te	m per	ture	Sea.	perju	od for	24 y	mara,	3. (3. Office ces of the Baro			33.06
and	from	obser	vatio	ns mad	e at 6	3h, 10	h, 16	h, and	d 22h	A AFOI	T CHE	LEG	ces of the Daro	gra	n and	Inermograph,
											ned f	ron	self-registering	ther	mom	eters All the

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides and are suspended four test above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No so immerly at the Surveyor-General's Office

The hygrometric elements are ontained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The cirection of the movement of the wind are taken from the trace of a Beckley's anemograph.

. The mouth of the rath-gauge is one foot above the ground

o overcast, g gloomy, p passing temporary showers, d drizzling rain, t thunder, lr lightning reflection.

John Eliot,

METHOROLOGICAL OFFICE. INDIA.

The 30th July 1888.

For Meteorological Reporter to the Government of India.

Meteorological Report of the Province of Bengal

		,		1					STATIO	N OBSE	RVATIO	DNS.					
				An	PRESE	RR.	Wini	١.			TR	MPERATI	rr.			humidity for week.	Son it
district.		Representati	¥6	Mean bernmeter beacht, to a M.	Vien reduced ; o sen-level.	Variation from	Presading direction.	Menn wand redo- city miles per- day.	Highwas during week.	Lowest during week,	Mesn maximum temperature.	Mean minimum ter perature of week.	Mean daily tem- perature of	Variation from normal mean of week,	Mean 10 A. M. temperature.	Average burn at 10 A. M. for w	Average cloud amount
	- 7	Gopalpore	444	50.918	20.205		8	278	83.0	PB'B	80.0	7912	81.0	-	801P	80	7
Poores	}	False Point		20'51H	99153¥	'0"8	WsW	267	90'0	751	87-1	714	98.5	-1.7	11218	85	91
Cuttack		Cuttuck		391489	29*539	1078	WsW	79	8914	22.4	80'8	77'6	85.1	-1.8	83.3	77	71
Balasore		Balasore		201447	201506	torine	8W	151	80.0	77.2	87.2	78.2	R2*7	-	84"8	84	7
Boulh-West Midnap	ore)			Cheta A Phay	20.218	008	8W	370	88'2	77:0	8515	8012	6810	-0'7	86'6	85	9
South 24-Pergunnah		Saugor Island		\$0.300	St. Dt.D	- 000		624.17	1					i			
Midnapore		Midnapore	***	29:370	20.204	tion.	Variable	9	91'8	77.8	881	77*8	83.0	-	85'8	80	6
St-Permunaha	7																
Howrah		Calcutta	401	20,180	29'501	-140	SW	106	90.0	77.2	87.8	79.2	83.9	+0.1	84'8	80	8
Hooghly]												0.440		0.00		01
Burdwan		Burdwan		20.898	\$0.488	-113	Variable	82	19,84	76.4	0.00	79-7	84'8	-02	84.8	. 76	8.
Bunkoom	. 1												44000		08.00	OII	
Bearthoom		Ranigunj	41	29:135	- ;	-	Variable	\$	80.8	77.3	80.8	77-11	6/8/16	- Gymnh	8579	85	8
West Burd wan)												14.6713		84'9	83	10
Moonwoodshad	***	Berhampore		201420	29 405	114	8W	109'6	91.1	TR'N	Ba.d	7914	[19 17	-0.1	OM D	00	80
Nudden		***						No	(14) a(14, 7, 59 f	ory start	4141.	1					
Jessore	}	Jussore		201487	20 820	U95	Sandy	78'0	92'4	7716	8"-18	7016	851	+1.2	8810	86	-
Khoolna)						43.90			Marco	1000	79+0	80:0	1:0	82'0	86	(
Chittagong		Chittagong	***	211445	20.378	-101	6E	154	86*1	75'0	8418	7818	801	-1.2	08 V	1	
Chittagong Hill Tra	eta.	Demagri	941				NW			B Bro ree		90-2	8210	_	8318	87	
Backergun)	***	Barrisal		291567	-	-	54.44	416'6	86.9	73.4	84.0	30 2	Qui ti		190 ()		
Nonkholly		Noukholly	011					4 4444	#1414 M	P.A.A.	Omeli	7910	89.0		6416	84	
Furrendpore	**	Purreedpore	***	50.401	-	_	848	1 49 9	83118	74'9	87*8	80.0		+0.8	86:0	83	
Ducca		Dacen	***	29 400	291526	106	88	13	85.1	77.7	8818	77'8	1	-	83'5	81	
Commillah		Commiltah	(4.	20.218	211-531	-	SE	173	90.3	78 0	88*4	7916	8315		82 4	81	
My mensuigh	4.	Mymemingh		20:504	-	-	52			of yet sta		1 25 0			0.0		
Borns and Publis	***	Serajgunj	*1		dwa. str.	_	Variable	454	93.6	2816	91.5	7919	85.2		8519	80	1
Rajshaliya	**	Rampore Bear			231.471		BE	156	80.0	78.1	80.0	78'9	8414	2	83.8	83	
Dingepore	***	limgepore	***	#81.38B	-		bE.	130	81.8	78-0	100.1	76'9	84.2	_	85.4	81	
diangpore	00	Rungpore	***	29*508	_	-		240	674 0		00.4						1
	}	Julpigaree		29.196	-	-	1	987	01.0	77'1	8913	7810	63 7	-	84-1	88	1
Cooch Behar)	Destroling		22-822		_	E & ENE	ദാ	60.0	50'7	67.9	55'3	63'1	_	8615	85	1
Darjeeling Hill Dist	ricts ;	Darjeeling Debree		20.121	29 504	-	8W	9	88.1	70°0	841	71'1	77.7	_	801	77	
Shahabad		Hume	0.01	20.531	20'01'473		Variable	123	88 4	77'7	85 4	7816	82.7	-	NS 1	87	1
	(Gyn	***	29'094	29'470	-146	W & V	61	8918	73'8	8610	747	80'7	-40	93'6	83	20
(03m)	***	Нацкірого	69.0	00.000	291479	-107	Variable	89	98 4	75.7	8815	79'2	6319	-0.0	83 6	85	1
Frint	***	XPRICE STORY	***														
South Bhagulpore	}	Blummilpuro	001	20.324	29'447	-	ENR	89	92'4	79'0	95.8	79 6	84'6	-	85.7	80	1
Monghyr Southal Pergunnals		Doomka		25364	_	_	SE	-	65.4	70'2	871	77'6	98,3	-	84'8	88	1
		271112000															
North Bhagulpore	6.1	Purneah	***	201301	20,460	-128	E	41	85.5	78'3	90.2	70.2	87.5	+-018	8618	84	1
							F2.104					1					1
Monufferpore	6.1	Durbhunga	***	29:32	201887	-113	ESE	123	80.6	80.0	8819	80.4	8417	+0.9	04'6	87	
23)	Motiliari	111	_	onen	_	E	_	96'6	70.0	94:8	7910	81.7	-	65.1	79	(
		Chupra	4 ***	20:271	_		E	27	\$H418	75'8	90'1	79 9	851	-	83.1	104	
		Hazaribagh	410	27-509	201498	000	SW & NW	199	85'4	78'1	81'6	78.7	77:7	1-1'8	77'1	90	1 9
Loharduges			-										0.000		76:0	86	9
Manbhoom		Ranchee		37'611	20-918	Code		-	84 0	69.4	81.0	71'3	36.8	-	70 D	80	
241	1																

Frequentian of Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same The historiets of the atmosphere is expressed as a percentage, saturated are being represented by 1664. A clear sky is denoted by 0 and an overcoset at vatures, maintage the normal means are the numerical means or averages of the rainful in that district determined from the returns sent in by the sub-district from that district, (4-a) the total rainful at the sub-divisional stations in the district sending in returns divided by the number of stations. A rain

the week ending 27th July 1883.

	-							-		+				
				RA	INFALL.								()	
Of	week.		nce 1st of mor	ith.	Sinc	ce 15th May	٠.	number uy days he week.	days	Representati	ive	DISTRICT		
Menn for districk	Normal mean for district.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean	Variation.	dversite nu of rainy during the	Normal nur of raing of week.					1
C			1		1	,			,	Gopalpore	3	,107		
3:1	6 8.25	18:52	11'16	+2:36	30'78	21.75	+9:03	3.2	412	** 1	}	Poorce		***
1'8		12.00	11:54	+1.00	29.20	22.10	+7*46	8:8	8.8	Cuttack		Cuttack		
2.1		11:08	11*80	+0.18	20162	21.55	+8:27	412	9.0	Bulmaore		Baianore		***
-4-											6		napo	100
1 100	8 8:27	16'98	12'65	+ 4.31	29.78	25'06	+3'67	2 7	418	Saugor Island	₹	South 34- Pergung		160
1.7	1 9:46	10.00	10'24	-0'84	18:17	22.54	-8'11	8.0	3 0	Midnapore	***	Midnapore 24-Pergunnalis		
910	8 8.81	12:74	10:00	+2.74	28.75	22:93	+0.82	418	419	Calcutta	j	Hawesh		•••
	0 81	1	2000		67 68	2000	100%	# 0	917	J 404 U 40 U 1043	***	Housely		***
2.3	8 2.52	13:42	8,30	+5.03	26.42	10.40	+6.76	8.0	8'8	Burdwan		But later		-vill
	- 32	10.13	17 (30						0.0			Burkeen	. "	****
214	4 2.40	19:35	10:06	+ 3 20	20'04	22'64	+6'40	510	4'5	Ranigun)		Raunininana	-	
	8 40		3,00									Want Bankan		
2.1	8 1.59	0.34	8:77	+ 0'57	23'14	20:01	+2.20	5'0	412	Berhampore		Moorshedahad		-10
216		6.80	8.44	+0145	20.32	22:11	-1.79	3 9	4 0	*****		Verdelan		100
											(Jessore		000
8.0	8 218	11'58	8.80	+2.99	23100	25 31	-2'31	517	4.7	Jessore	₹	Khoolun		
6'4	8 6.83	\$1.37	25:22	-3.82	74:34	89'98	+14:36	6.2	2.4	Chittagong		Cultingong		989
1'8		1):61	14:91	-5'30	30'38	88*41	-8.03	7'0	5*6	Demageri		Chittagone Hill T		
1'7	7 6'16	12:13	15'41	-3'30	81.70	40155	-8.76	60	5*9	Burriant	***	Dankoumust		
2'0		15'77	19'81	-1'04	62-24	53174	4-8:50	5 0	518	Noakholly		Vanishalla		
217	_ 1	11.76	9:39	+ 2.37	23.04	20 90	-3:26	6.0	418	Furreedpore	***	Krimnaulianne	.,	
2.3	5 3.07	15'08	10.85	+ 4*23	20.03	29.03	-2.08	4'3	4:45	Dacca		Dunen		
1'1		15'41	11 69	+ 3.72	30'83	34:29	12'54	4.2	5.0	Commillah		Commillab		
216		11.67	11'97	- 08°0 -	25.18	34.22	-9 04	5.3	416	Mymonsingh		Mymonsingh .		***
1.8	8 2158	9:93	10:18	-0.82	23.93	20154	- 58°2 −	410	410	Sernjgunj		Bogra and Pubni		
1.0	8 1.71	0.99	10'83	-3'88	319165.6	23°80	\$110	5*8	4.3	Rampore Beau	losh	Rujshahyo ,		
1.3	88.8 6	5*83	10.88	-5'03	20*21	20*74	-0.23	0 3	411	Dinagupore		Dimgepore ,	9	
116	3.3	0.38	13'42	-7'04	22171	49161	10'84	818	3'7	Rungpore		There was a second	6-3	
4:8	7 4*85	15:72	17160	-2.17	47'13	60 34	13:10	810	417	Julpigaroo	{	1 Can In 14 h	0.	***
8.4	7.81		36184			81'79		6.2	0.0	Darjeoling		Darjeeling Hitt 1		enten
	1		00.01			00.10			5	Dehree	}	2000000	2000	-
5.0	9 8'04	9:71	9.75	-0.04	17:70	15'71	+1.60	5.7	3:9	Buxar	}	Shahabad		***
9.41	1.0	12:61	9:34	4 3°25	28 92	16.12	+7'76	8.2	3'5	Gyn	1112	Gyn	04.0	1
6.8		11'67	9.28	+2.19	25-31	16.83	+11'48	6.0	3.8	Banklporo		Patna		
218	100	8.0%	0.21	-1'64	19:84	1746	+3.10	0.0	4.5	Bhaguipore	{	South Bhagulpoo	ru	
217	2 8.10	9192	10:39	-0'47	28:30	21165	+ 1185	8'7	6'3	Doomka		Southal Pergunn	nhs	**
1%	18 3.24	7:06	13.90	-5.44	31 21	25.81	+8.80	43	6:1	Purnosh	{	Purnesh North Bhagulpon	10	***
2'8	8 2'38	6 04	9.99	-3.01	58.00	18 20	+ 5'66	8.8	8.8	Durbhungs	{	Davidsh	00	***
2-(1	7 2198	8.77	10.81	-1154	18-13	20:17	-5.04	3.7	318	Motihari		Character man		-65-
8.X	_	12.80	10.15	+5.03	55.00	17.63	+ 9.03	515	3'6	Chapra	***	bb as man and	***	,
410		18:40	11.18	+2.21	51.13	21.00	+0.09	8'8	4'9	Hunaribagh	6.915	Managhanh	,	500
810		19:68	11:66	+1.07	24"96	20.78	+438	5'8	67	Ranchee	{	Lohardugga	n n d	
	2.00	18.09	11.00	7 6 01	21 00	\$U (0	7 6 7 6					Manbhoom	104	***
2.0	8.08	10:91	11'28	-0'37	90144	28:47	-5.03	8'0	40	Chyobassa	9.65	Sunthbhoom	100	***

for the past 12 years. The variations are negative when the mean for the week is less than the corresponding normal mean and positive when greater The number denoting cloud amount represents the part of the sky-covered, the whole sky being denoted by 10. Under the head "destret obsertations for the period in question during the past 12 years. The "means for the district" are the numerical averages of the rainful returns recovered on which at least an hundredth of an inch fell.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 27th of July 1883.

					R	AINPALL				Tol	inl.		Average		1
Meteorological division.	District.	Station.	Saturday, 23st July.	Suriday wand July.	Monday, 23rd	Tuesday, 24th July.	Wednesday.23th	Thursday, 25th	Preday, 27th	Number of ranty days.	Rainfall of	Total rain- fall from 1st to 27th July.	total rain- fall from lat to 27th July.	Total rain- fall annea 15th May.	(2)
Onthoa	Poores	Poorea Khurdah Banpur Palse Point Hookitola	0188	0°27 2°10 1°39	,		0°10 0°13 0°75	0°85 6 83 1°86	0.67 1.50 0.18	4 4 3 3	1156 4168 2 93	18:38 13:50 9:11 13:76	0:71 12:07 10:03 12:06	72'24 80 07 20 70 84'28	
	Cuttack	Jagatsingpore Banki Cutinek Kendrapara Jajpore	61,6162 61,6162	1100	0.16	0°80 0°7	0.01	0°17 0°48 0°58	018 020 125	6 2	1.75 0.79 1.50	12103 12143 15142	9183 12183 10195 18163	40:91 20 + 4 39:39	
27	Halasore	Chandbali Bhuddruck Sorah Balasore Je lasore Baryodah	0°02 0°81 1°04 0°11	0.50 0.25 0.25	0.36	***	0 68 6 64 6 64	0/10/ 2/40 0/70 0/70 0/70 0/08	0.02 0.15 0.60 0.11	9 2 3 0 4 6	1103 2167 1156 1187 2181 2167	11'88 10' p 1027 (240 13'75 13'15	11140 1070 11101 1207 13146 1208	39*11 20*44 27*1 80 77 81*00	30
SOUTH-WEST BENGAL	Midmapore	Contai Sauger Island Pembook Midnapore Ghattal	0.01	0.91	8°24 8°48 1'00 0'30 0'68	*****		0°05 1°50 0°31	1'21 0 18 0'97	4 1 1 8	6'51 3'49 2'50 1'14 1'50	19701 14700 13700 7707 9735	12°88 12°94 932 9°91 11°90	31'91 30 46 21'40 15'30 17 73	
4	24 Pergunnah	Diamond Har- lour. Alipore Juil Burnekpore Dum-Dum Burneet	0"49 0 41 0 47 0 8	0°02 0°41 0°14 0°14	1138 1119 0170 0153 0188 0167	0.08	******	6°20 0.73 0.82	0148 0143 0125 0125	3 6 6 6 5 5	3769 2740 1 98 1788 1788 1785 2786	14'98 11'50 13'00 14'03 12'01 16'07	12:17 10:49 9:71 9:18 8:79 10:07	21'81 21'41 24'42 23'87 23'76	
	Howrah	Howeth	0.12	0.34	0.49	0101-1	0.01	0.57	0°29 0°46 1°97	5 6	2101	P 45 12 55	1e-18 20/94	1(#34 21.54	
m-	Burdwan	Serampore Licogily Julianabad Culna	0.70	0.17	0.58	0.01	0.02	0.88	0198 0198 0192	3 4	1'07	17'46 7'57 14'51	9°54 10°55 8°68	26.20 24.20 34.20 34.20	
		Burdwan Cutwa Rancegunge	0'81 0'40 0'35	0.04	0'62	0.10	*****	0.09 1.55 1.65	0°10 0°11 0°17	8	2 01	16 ds p 18 1970 1870	0.44 0.44 4.45 8.51	31:72 21:34 31:72 23:44	
	Bankoora	Bishespore Bishes Kimtra	0'07 0'61 0'24	0.03	0187 0145 1188	0.27	0°10	0147 0147 0147	0'97	7	1 44 1 65 3 66	10.10 0.01	14.92 8.92 14.92	93 92 53 19 21 45	
	Heerthoom	Hetampere	0.70	0.33	0.03	0.01	4)1(1)	2174	0125 0145	7 8	1'97	13.00	11 28 8 47	89193 24167	
•	Nuddon	Rongong Ranagint Kishinghur Chomonga Meharpore Koopitos	0°60 0°80 0°80 0°89 1°88	2140 2160 0148	0 20	0.65		1'80 1'80 0'91 0'70 0 36	0183 0155	8 3 6 3 8	4 70 3 80 2*5 6 2:73 1:57 1:70	12:12 16:30 7:03 6:45 0:45	9:10 7:78 8:37 8:41 7:93 8:73	23:40 28:30 12:30 14:32 14:30 14:30 23:30)
10.	Khoolun	Satkira Bagirlat Khoolim	0.15	1 25 0 42 0 18	0.25 0.08 0.25	0.50	9103	0.12	U-84 U-87	5 6	3'08 8 m 1'55	10'01 12 10 8'09	9°70 11°68 9°53	81:31 28:00 23:00	5
F	Jessore	Narail Justore Justinah Magoumh	6.31 6.26 5.62 6.53	0.88 0.88 0.88 0.66	0.50	0.08	0 07 0 35 0 10	0°25 1°47 0°86 1°01	0°98 0°15 0°63	G 7 8 8	3.78 4.40 3.01 3.74	0°12 12°18 9°82 13°43	6.83 8.64 8.15 8.51	21:07 20:07 20:43 26:06	7
	Mooraliedabad	Kandi Rampore Haut Berhampore Labagh Azunannge Jungi, "re Laigola	1'02 0'74 0'33 1'11 0'54	0.63 0.63 0.81 0.12 0.17	0°34 0°26 0°22	0149 0136 0136 0166	0°43 1°95 0°92	0°36 0°22 0°46 0°25 0°25	0:07 0:38 0:13 0:42 0:03 0:18 1:02	5 4 8 7 5 6	2:59 1:62 1:07 1:59 8:43 1:82 1:72	11:70 10:07 8 21 9 13 11:25 7:30 11:25	10:21 7:53 9:63 7:41 7:71 9:49 9:46	25113 26121 26121 20121 21120 23143	
EAST BEHOAL	Chittagong .	Cox's Basar Chittugong	1'41 0:39	0.50	0.53	1'43	0 '122 2 '69	0.13	0°27	7	4161	22°14 20°60	23147 36193	74.86 67 ji t	
	Chittamons Itali Iracts,	Rangamati Ruma Agartola	0.47	1102 0165 0109	0.11	0:03	0:54	0.05	0°17 0°20	7	1:85	9793 13 35	35/80 13/39 6/90	81:42	2
	Backerguege	Permakinally Peronepore impression limbs	0185 017 0108 0 61	0 55 0 43 0 51 0 31	0106 0187 0114 0197	0/99 0/20	******	0.07	0.55 0.50 0.10	6 6	1'78 2'02 1'39 1'90	15'50 11'59 11'59 11'58 9'95	18:24 14:03 12:49 10:05	26703 28 86 29 30 34 37	
M.	Noakholly	Neakholly Founy	1°10 8°50	0.08	,0.04	0°23	0.05	0.12	0123	6	1.79	20167 16184	19°17 20 11	05:00	
•	Furresdpore	Madaripore Furuedpore Goalundo	0132 0114 0148	0°15 0°05 0°36	0'27 0'09	1°96 2 72	0°03 1°33	0°05 0°41	0.88	6 6	1:00 2:20 6:01	13'70 18'00	10°38 8°91 8°99	93193 96139	
11/2	Dacon	Munshigunge Dagea Namingunge Manickgunge	0°18 1 5h 0°69 0°18	0°80 0°04 0'50 0°18	0*02	0170 0162 0153 1168	000000	0.11	0.58	5	3.99 3.55	13:83 15:62 14:34	18:36 19:90	99798 96798 93719	
, ,	Comilia ,,	Comilia Clandpore Brahmunberia	U*16 G*66 U*66	0.52	0.03	0°08 0°05 0°12	0 01 0 85	0.10	0.18	7 8 8	1.10 5.12 0.85	17:84 20:90 11:51	12'71 11'05 9'42	\$1124 8113 98181	
	Mymanaingh	Ktshoregunge Atta hymenemgh Jamalpere Nutrokons	0183 0 65 0158 0168 1168	0 60 0 16 0 07	0188 0103 0167 0165 0109	0.25 0.68 1.72 0.46	0.12	0 12 0 13	80'0 80'0 01'0 30'0 48'0	3 6 7	2°13 1 26 2°74 8°14 2°60	13'03 16'44 10'25 7'60 13'07	30°57 9°13 33°53 11°29	27:31 25:14: 25:14:	4

Explanation indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the wanting, the corresponding spaces in the total rainfall columns are left blank.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 27th of July 1883—concluded.

	1.74				B	AINPAL	I.,			To	TAL.				
eteoreslopical division.	Districe.	Station.	Saturday, 21st	Sunday, 22nd July.	Monday, 23rd	Tuesday, Sub	Wednesday, 25th July.	Thursday, 26th	Friday, 27th	Number of ratio days.	Ramfall of week.	Total rain fall from the to 27th July.	Average total min- full from lut to 27th July.	Total rain- full singo 15th May,	Average mittall from 18th May to date.
HENGAL	l'ubna	Pubna Serajgunge	1'28 2'10	#0:08 6'80	6014	0.34		1,10	0.15	5 3	1197	R134 11:37	7'54 H INI	21.23	25,00
	Begrin	Shorpore Nowshilla Bogra Panchbibi	0.80 6.82 0.24	0'60 0'0', 0'17	0.03	1:31 0:20 0:27	0:00 0 86 0 264	** **	3 (88 (88 (88)	1 4 5	61° 80 2007 21° 6 6 1 50	8:12 7:50 1+ sri 7:32	19/49 10/03 [21/4]	16724 16 41 25 14	180120 20144 18044
Va.	Rajahahyo	Hennleah	0.10	0.01	**	0°16 1°25	0.90	0.03	0103	8 5	6 4% 3765	5195 6135	12'67 10'32 11'04	1975 ; 1 F 6 4 1 6 7 (0)	27 64 23144
	Muldah	Muldah	0.09	0.85	0.83	1311.4	0123	0105	0.09	ti	1 44	0.48	9161	21:30	25 57
	Диникерого	Mohadebpore Churamore Raigunge Diangepore Baloorghut	0'04 0 17 0'98	0.03 0.19 0.29 0.32	0.30	0°15 0°44 0°44 0°09 1.40	0170 0195 0 03	0704 0.31 0702 0.85	0145	6 5 6 5	1177 0176 1161 1184 1188	6 63 6 63 6 50 5 15 6 763	Terres trives Terres Terres	17:07 18:06 18:98 21:12	81 93 21 73 84 74 81 74
	Rungpore	Bhawanigunge Runspo o Kurigram Baguogia	0°15 0°54 0°55 0°50	0.07	0.15	(F*500)	1°20 0 (3 0°85 0°15	001	0.03	5 2	2792 U102 1140 1100	6191 6192 3 55 7 21	191569 141766 13466 13466	20156 22 20 26 60 30 35	30 162 42 37 45 20 85 20 84 36
	Julpigoree	Julpigoree	0.87	0.48	0.41	*****	2'7%	2.14	0.03	6	7:31	17 43	23169	56'67	89111
	Coord Hehar	Cooch Behar Mickligungo Matubhanga	0.41 1.63 0.73 1.84	0119 0 45 0 19 0165	0.30 0.53	0.13	0°57 0°70 0°39 0°72	0:29 2:74 3:m 2:50	0105 010. tr 01	5 6 7	5*61 4*36 5*63	11:77 17:183 48:453 17:03	240°74 216°75 245 426 216°73	85:37 84:16 46:14 87:55	8 v '90 6 v '54 6 v 54 6 v 64
	Darjeeling Hill.	Buza Silliguri Pargeeling Kalimpong	0164 0166 0166 0152	0.59	0150 0102 0 86 1 87	2164	6140 0173 0120 1180	0172 0180 0172 0118	0°11	6 6 7 5	11:48 2:88 5:48 4:78	27144 14152 11168	44'45 27'20	79:20	105'71 56'90
ETH BEHAR	Purneah	Kissengunge Armrech Puruesh	0.50	1.10	0.32	0.05	0.46	0.20		6 1 5	1°16 0 46 2°0 8	8'87 6'11	15'11	\$3759 85759	38:41 \$0.91
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	Mosufferporo	Sitamerhi Mozufferpore Hejipore	6*47	0.40 0.40	0 13	0°07 0°61	0.44	0:30	0°82 0°07 0°35	4 7	2:02 1:85 2:95	5124 7125	8-43 9-49 31-43	13:25 25:15	10°4 10°6 15°5
4	(humparun	Motibari Bettiah Gopingungo Newah	0°18 0°25 0°28	0'27	0102 0177 0194	400.000 407.03 407.00	1:02 0:32 0 43 0:00	0°85 8 20 1°43 8°72 8°88	6.400 (6.50) (7.00) (7.60) (7.60)	4 3 4 6	2.02 4.88 5.48 5.64	8'01 10'65 7'47 12 10	9783 8781 11743 11743 11748	21'83 24'92 16'61 16'85 10 91	18746 82 41 1976 3.5 45
UTH BRHAR	Shahabad	Buznr Debree Bhubeenh Sasserahi	1.17	0102 1120 0104 0117 6144	0°12 0°03 1°02	0 69 0 23 0 20	0°50 0°15 0°0, 1°05 0°13	0°27 0°47 0°21	0.772 0.700 0.700	7 6 5	3°05 2°51 6°35 2°70	16143 11143 12145 7133	9:59 10:20 10:39	25 35 19'31 25.95 15.77	15:7; 14:8) 14:5; 16:1;
	Gyn	Aurumenbad. Gya Sowndali Johnnabad	1753 0 33 0 75	(PG1) 1:28 1:39 0:25	0°31 0°06 0°21 2°45	7.63 5.14	0°u2 u'75	0'61 0'22 0'70 2'76 0'65	0.14 0.14 0.45	6 7 U S	3°17 1°29 6°04 7°77 4°93	7:50 13:50 13:50 13:35 14:57	5'95 10'64 9'21 9'47	17:29 17:50 31:32 21:79	1015.
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	Singbhoom	Chyelman	6.65	018				0.08	1.01	3	2:05		12'37	20113	2.1 00
-		Gobindpore	0.69	1"02	0,000	0.02	0.33	0,10	Las	7	9.11	13166	10'01	20117	200 m

as my the corresponding spaces in the total ramfall communicate left mand.

SUMMARY OF METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 27TH JULY 1883.

THE meteorology of the past week has been in some respects singular At the end of the previous week (20th July), as was pointed out in last week's report, the continuance of westerly winds at the more westerly stations in South Behar and in Chutia Nagpur indicated that the influence of the Bombay branch of the mousoon current still extended over a considerable portion of the Province, and that the rainfall at that time was due to the combined action of the two currents. At the beginning of the week under review neither current was strong, and the Bombay current appears to have steadily decreased in intensity during the week. The combination of the two weakish currents gave fairly general rain, moderate in amount, at the commencement of the week. It decreased in amount and became less general on Sunday and Monday. Light unsteady winds prevailed over the whole Province on Tuesday. Skies also became much clearer. The barometer, which had risen for some days, began to full on Monday. Pressure decreased slowly on that and the next day. Tuesday was comparatively a dry day over the Province, the rainfull consisting of a few light local showers.

At that time strong monsoon winds were almost certainly blowing over a large part of the Bay. This was indicated by the wind returns of the Ceylon stations and Diamond Island, and confirmed by the experience of vessels entering the river at the end of the week. The changes of wind direction at the head of the Bay also indicated that heavy rain was falling there, but that it was diffused over too large an area to give rise to a strong cyclonic whirl. The barometer, probably in consequence of this rainfall, fell rapidly on Wednesday and Thursday over the whole Province, and was nearly two-tenths of an inch below the average in South Bengal on Thursday morning. The result of this rapid full of the barometer was to produce an area of shallow barometric depression over the Sunderbuns, which was stationary on Friday, and then moved westward passing into the southern districts of Chutia

Nagpur, where it apparently disappeared, after filling up on Sunday (the 29th).

The formation and establishment of this area of shallow barometric depression in South Bengal gave westerly winds on Wednesday over Chuia Nagpur, South Behar, and the western districts of South-West Bengal. These winds, combined with southerly winds in East Bengal, and easterly and northerly winds in North Bengal and North Behar, gave moderate cyclonic circulation of the air over a large part of the Province on Thursday and Friday. Light to moderate rain hence fell over the whole Province on Wednesday, and continued during the remaining days of the week, increasing slightly in amount. With the westward passage of the depression into Chutia Nagpur on Saturday, southerly winds set in again over the whole of Bengal, and brought up rain chiefly in short squalls. They are now

giving fairly general rain over Bengal.

The barometer has been below the average during the week. The variations are large, ranging from an average for the week of '07" at Cuttack to '14" at Calcutta and '15" at Gya.

Pressure has been for the past fortnight relatively high in Orissa and Chutia Nagpur. The temperature variations are not large, and depend mainly on the amount and distribution of the rainfall. Temperature was slightly above the average in North-East and North Bengal, and also in North Behar over which the rainfall of the week was below the average. Elsewhere it was slightly below the mean, except at Gya, where the average deficiency is 4. The highest temperatures during the week were recorded at Raneegunge, Burdwan, and Ramporo Beauleah. Winds have been slightly irregular during the week. The mean feature during the past as during the previous week was the unusual predominance of westerly winds in Chutia Nagpur, South Behar, North Orissa, and the adjacent districts of South-West Bengal. The winds were normal in direction in other parts of the Province.

Abstract for the week ending 27th July 1883

METEOROLOGICAL DISTRICT.	TEMPHEATURE							RAINFALL.									
	Highest observed during work,	Week.	Average for week.			k above or week.	Of week.			Rainy days,			Binee 1st of month.		Since May 15th.		
		Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week a below normal mean wee	Average.	Normal average.	Variation,	Average number in	Normal average num- ber.	Variation.	Average.	Normal average.	Average.	Normal average.	
Original South-West Bengal East Bengal North Bengal North Behar South Behar Chutia Nugpur	90°9 99°5 90°8 93°6 92°4 98°5 83°4	75°1 77°0 78°4 77°1 70°0 78°6 60°4	86 4) 88 9 86 8 90 2 86 9 80 8 80 8	75 1 79 1 78 8 78 9 76 8 70 0 72 6	82.0 84.1 82.4 84.6 81.0 84.0 77.2	-1'8 +01 -0'4 -2'7 +0'6 -1'8	2:25 2:63 2:29 2:30 3:02 3:02 3:65	3'21 2'45 6'67 3'15 3'96 2'62 3'83	-0.96 +0.08 -1.7* -0.76 +0.08 +1.61 +0.71	3°0 4°5 5°2 4°6 4°N 8°6 5°1	6'0 4'4 5'1 4'3 8'6 4'0 6'8	-01 +01 +03 +12 +16 +03	11 86 14 36 9 25 6 91 10 21		50°44 (24) 15 33°46 20°88 25°53 30°02 23°00	21 77 22 4 38 86 30 33 16 7 19 36 22 13	

The rainfall of the past week was considerably smaller in amount than during the previous week. The western half of the Province, including South-West Bongul, Behar, and Chutia Nagpur, received amounts giving an average slightly in excess of the normal, except in South Behar, where the excess was over 60 per cent. The Gya, Bankipur, Chupra, and Hazaribagh districts received the most abundent rain.

The rainfall was in defect over East and North Bengal, and also in Orissa. The deficiency was on the whole greatest in East Bengal, but was also very considerable in some districts in North Bengal. It was most marked in the Barrisal, Noakholly Comillah, Diagepore, Rungpore, and Purneah districts over which the rainfall during the week was from 30 to 50 per cent. of its normal amount. The deficiency in the rainfall was, however, not due to diminished cloud amount, or to a smaller number of rainy days, but was almost entirely owing to the lightness of the rain showers. Normal or abundant rain has been received during the present monsoon up to date in every part of the Province except the central districts of North Bengal and the northern districts of East Bengal.

Saturday, 21st July.—Pressure increased during the previous 24 hours at the great majority of stations. The rise was small, except in East Bengal and at Burdwan. Pressure was below the normal of the day by amounts which ranged from '04" at Chittagong to '14" at Gya. Temperature was increasing, but was below the average except at False Point and in North Behar. The mean temperature of the past 24 hours was 1½° in defect in South Bengal, and 2½° in South Behar and Chutia Nagpur. Winds were much lighter at the head of the Bay. They were south-easterly in East Bengal, south-westerly to westerly in South West Bengal, easterly in North Bengal and North Behar, and variable in South Behar. Westerly winds continued at Dehree and Hazaribagh. The humidity of the air differed very slightly from normal, but was somewhat in defect in Orissa. The sky was overcast in East Bengal, South Behar, and Chutia Nagpur, and over the greater part of South West Bengal. Elsewhere it was more or less clouded, except at Motiharee, where it was clear. General rain fell over the whole Province except in Orissa and the western districts of North Behar, where local showers were received. The rainfall was moderate in amount and fairly uniformly distributed. The largest rainfall recorded was 3.5 inches at Fenny.

Sunday, 22nd July.—Pressure increased slightly during the previous day at the majority of stations. The changes of pressure were unimportant, except at Chittagong and along the east coast of the Bay, where the barometer was falling rapidly. Pressure was below the normal over the Province by amounts ranging from '02" at False Point to '12" at Gya. Temperature was generally below the average at all stations. The mean temperature of the past 24 hours was 3½° in defect at Gya, 2° in Eastern Bengal, and 1° in South-West Bengal and Orissa. Temperature was highest in North Bengal, more especially at Rampore Beauleah, where the highest maximum temperature (91.6°) was recorded. Winds were feebler than on the 21st, more especially at the head of the Bay, but were unchanged in direction. The air was damper again in Orissa. Humidity was unusually high over the greater part of Behar. The sky was overcast in Orissa and South Behar, but less clouded in South-West Bengal than on the 21st. Rain fell over the whole province during the previous 24 hours. The rain fell in showers, which gave amounts generally less than half an inch. They were on the whole lightest in North Bengal and Behar. Gya and Patna were the only districts which received moderately heavy rain. At Barrh 3-25 inches were registered, at Dinapore 2-85 inches, and at Patna 1-75 inches.

Monday, 23rd July.—Pressure began to decrease at the majority of stations. The changes of the previous 24 hours were otherwise not important, and pressure was considerably below the normal by amounts which ranged from '01" at False Point to '12" at Gya. Pressure was very uniform over North Bengal, Behar, and Chutia Nagpur. Temperature was below the average, except at Dacca and Purneah. The mean temperature of the past 24 hours was 3° below the normal in South Behar, 1½° in Orissa, and 1° in South-West Bengal and Chutia Nagpur. Winds diminished considerably in strength during the past 24 hours. Southerly winds prevailed generally in South-West Bengal, south-easterly in East and North Bengal, and easterly in Behar. The sky was overcast in South-West Bengal, Orissa, and in South Behar. It was lightly clouded in the central districts of North Bengal, and clear at Motiharce and Hazaribagh. Showers fell in nearly every part of the Province. They were light in East and North Bengal, North Behar, and the Southal Pergunnahs, and gave moderate rain to the greater part of South-West Bengal and South Behar. Heavy rain fell in the south of the 24-Pergunnahs and the Midnapore district, (where falls exceeding two inches were received at Saugor Island (3.48 inches), and Contai (3.24 inches). A few light unimportant local showers occurred in Orissa.

Tuesday, 24th July.—Pressure had fallen except in Orissa and East Bengal. The changes were again small, except in North Bengal, where a moderate fall of the barometer had taken place. Pressure was below the normal in all parts of the Province. The deficiency was small in Orissa and was largest in Behar. It ranged in amount from '02" at Cuttack to '16" at Purneah The mean temperature of the previous 24 hours was 24° below the average in Orissa, 2° in South Behar and Chutia Nagpur, 1° in South West Bengal, and was normal in East Bengal and North Behar. Rampore Beauleah and Julpigoree registered the highest maximum temperatures (91.6° and 91.0°) respectively. Winds were generally slightly stronger than on the 23rd, but were unaltered in direction. The air was drier, more especially in South-West Bengal and Orissa, where the humidity was below the average. Skies were also less clouded, and were overcast at a few stations, chiefly in South Behar and Chutia Nagpur, Rainfall was much less general than for some days previous. A few local showers of no importance were received in Orissa and South-West

Bengal. Light to moderate showers fell in East Bengal, the southern districts of North Bengal and the Southal Pergunnals and the Gya district. Falls exceeding two inches were recorded at Goalundo (2.72 inches), Nowadah (2.63 inches), and Gya (2.16

Wednesday, 25th July. - The barometer fell rapidly over the whole province, and more especially in East Bengal and South-West Bengal Pressure was considerably below the normal by amounts which ranged from 08" at Cuttack to 2" at Purneah. Temperature increased during the previous 24 hours, and was generally above the average. The mean temperature of the past 24 hours was 1° in excess in South-West Bengal and 1° in North High maximum temperatures were recorded in South-West and North Bengal. The highest were 99.5° at Raneegunge, and 91.6° at Ramporo Beauleah. Winds were moderate in force at the head of the Bay, although the gradients over the Bay were unusually high. Westerly winds were again extending and were established on this day over South Behar, Chutia Nagpur, Orissa, and the western districts of South-West Bengal. Humidity was slightly below the average in Orissa and South-West Bengal, and the greator. part of East Bengal, and above it elsewhere, especially in South Behar. The cloud amount was somewhat greater than on the 24th, and sky was overeast at the majority of stations, except those in Orissa and East Bengul. Showers giving fairly general rain, moderate in amount, fell during the previous 24 hours in East and North Bengal and Behar. Rainfalls exceeding two inches were recorded at the following statious: - Madhubani (in the Durbhanga district) 2.92 inches, Julpigores 2.78 inches, and Behar 2.23 inches. local showers of little importance were received in South-West Bengal and Orissa. A few,

Thursday, 26th July. - Pressure again gave way at the great majority of stations. The fall of the barometer was large over the east coast of the Bay of Bengal and in South-East Bengal. Pressure was below the normal of the day by amounts which ranged from 13" at Hazaribagh to '23" at Calcutta and '21" at Chittagong. An area of very slight barometric depression was now formed in South Bengal near the coast of the Sunderbunds. Temperature was high and above the average in South-West Bengal, Central, East Bengal and probably North Bengal. The mean temperature of the past 24 hours was 2° above the average in South-West Bengal. It was below it by amounts ranging from 1° to 5° in South and Central Behar. Light to moderate winds were blowing at the head of the Bay. Further south in the Bay strong monsoon winds were established. Westerly winds prevailed over Chutia Nagpur. South Behar, Orissa, and South-West Bengal. The combination of north-westerly winds in South-West Bengal and south-easterly winds in East Bengal gave a feeble cyclonic circulation in the southerly districts of Bengal towards and round the area of barometric depression. The air was generally slightly damper in South-West Bengal and was very moist at many of the Behar stations. The cloud amount was also greater. Westerly winds now gave overcast skies in Behar and Chutia Nagpur. Sky was least clouded in East Bengal. Fairly general rain fell in Orissa, South-West Bengal, Behar, and

Chutia Nagpur.

The rainfall was generally light in South-West Bengal, but was moderately heavy in the Burdwan, Beerbhoom, and Nuddea districts A few light local showers of little importance fell in East and North Bengal. The Julpigoree and Cooch Behar stations received heavy rainfalls varying between two and three inches in amount. General rain occurred over the whole of Behar and Chutia Nagpur, and was very heavy in the Chumparun, Patna, and Monghyr districts. The following were the largest amounts recorded:—Behar 6 45 inches, Januii (in the Monghyr district) 3 9 inches, Sewan 3 72 inches, Chuprah 3 33 inches, and Bettiah 3 2 inches. Light to moderate rain fell in Orissa

Friday, 27th July.—Pressure increased during the previous 24 hours at all stations except at Saugor Island, Cuttack, and Balasore. The rise was large in East and North Bengal and in North and Central Behar over which it averaged nearly a tenth of an inch. Pressure was below the normal of the day by amounts which ranged from '07" at Patna, Hazaribagh and Darbhanga to '18" at Calcutta. Pressure was lowest at Calcutta, which was the centre of the area of slight barometric depression that had moved westwards since the 26th. Temperature varied considerably from the normal. The mean temperature of the past 24 hours was 4° below the average for the day in Orissa, and from 4° to 7° below it in Chutia Nagpur and South Behar. It was from 1° to 3° above it in North and Central Behar and over the greater part of Benga'. Winds shifted considerably during the past 24 hours. They were of moderate force at the head of the Bay. They were south-easterly at the great najority of the Bengal stations, easterly in North Behar, north-easterly at Bhagulpore and Raneeguuge, northerly at Gya, north-north-westerly at Hazaribagh, and westerly to south-westerly in Orinsa, thus giving cyclonic circulation of air around and towards the area of barometric depression in South-West Bengal. The circulation was, however, feeble. The air was unusually dry in East Bongal and the central districts of North Bengal. The sky was overcast in Oriesa and also generally in Behar and Chutia Nagpur, and was partly clouded in Bengal.

General rain fell over the same districts as on the 26th. The amounts recorded were generally smaller, and the rainfall more uniformly distributed. It was most general and heaviest in South Behar and Chutia Nagpur; and was light to moderate in Orissa and South-West Bengal. Rainfalls exceeding two inches were recorded at Bhubooah (3-1 inches) and Popree (2-02 inches), and raufalls varying between one and two inches at Mohesraka, Chvebassa, Ranchee, Culua, Gobindpore, Narail, and Contai. Light showers fell at the great majority of stations in East Bengal, and a few local showers of no importance in North

Bengal.

MEMORANDA

The principal features in the vital statistics of the first class Municipalities in Bengal for the week ending 14th July 1883, as gathered from the subjoined table, are the following:—

(1.) That births were recorded in these Municipalities at the rate of 17.3 per 1,000 of population, against 16.9 per 1,000 in the preceding week ending 7th July, and deaths at 28.9 against 26.8 per 1,000, indicating an advance in the registration of both births and deaths.

(2.) That the highest proportions of births and deaths were returned by the undermentioned Municipalities:—

	В	irths.	Ratio per mille.		Deaths.	Ratio per millo.
Burdwan		***	35.1	Poori	• •	 117.7
Uterparah			28.3	Gya		 102.5
Gya			28.0	Darjiling		 44.4
Comillah			27.0	Patna		 35.7
				Comillah		 34.7
				Jessore		 30.6
				Bhagulpore		 28.0
			1	Burdwan		 27.5
				Hughli		 268
				Suburbs of (Dalcutta	 26.3

(3.) That the mean mortality from the various death-causes, in comparison with the mortality in the preceding week, stood as follows:—

						60 during the ending
					14th July.	7th July.
Cholera				• •	6.3	4.3
Small-pox				0 0	•4	.6
Fever	· ·				10.3	11.4
Bowel-comple	unts				4.4	3.6
Injury		9 9			.7	.2
Other causes			• •		6.8	6.4

the noticeable points revealed by these figures are an increase in the mortality from cholera and bowel-complaints, markedly from cholera, and a decrease in the death-rates from fever and small-pox.

and small-pox.

(4.) That while small-pox proved most fatal in only the Gya Municipality (3.4 per 1,000) and fever in Jessore (24.5 per 1,000), cholera and bowel-complaints exhibited the greatest activity in the following towns:—

Cholera.		Bo	nvel-compl	aints.	
	Batio per mille.				Ratio per millo.
Poori	 79.2	Poori	• •	0 0	19.3
Gya	 58.1	Patna	0 0		10.1
Comillah	 15.4	Midnapore	0 0		8.3
Mozufferpore	 4.9				
Monghyr	 4.5				
Hughli	 4.0				

(5.) That excluding the death of one Budhist, which occurred in the Darjiling Municipality, the death-rates among the other denominations composing the population of these Municipalities were:—

					1	Ratio per mille.
Christians			***	0 6 0		33.0
Hindus	***	000	***	•••	0.00	30.9
Mahomedans		***		***		24.1

(6.) That with regard to mortality referable to Age, the highest death-rates were registered among:—

				Ratio per mille.
Infants (under 1 year)	000	•••		245.9
Child ren (of 1 and under 5 years)			0.0	53.4
Old men (60 years and upwards)	Milled A.A.	***		49 9

and the lowest among aduits of 10 and under 15 years, viz. 14 per 1,000 of the living.

F. W. A. DEFABROK,

The 30th July 1883.

Officialing Sanitary Commissioner for Bengal.

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Gepica of Sanitary Commentoner for Bengal, The 30th July 1853.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 22nd to 28th July 1883.

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Монти.	Date.	Mean.	Masierom	Ranges.	Minimam.	Meso wet balb.	Vаронг tension.	Dew point.	Hamidity.	Rans
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The mean temperature of the seven days		480	82.8
The extreme variation of temperature during the seven days		***	18.1
The maximum temperature during the seven days	40.0		91.8
			%
The mean relative humidity during the seven days			89
			inones
The total fall of rain from 22nd to 28th July 1883			1.79

The mean temperature and humidity are obtained by applying to the mean of the 10a, 16a, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METEOROLOGICAL OFFICE, INDIA,

JOHN ELIOT.

The, 30th July 1883.

For Meteorological Reporter to the Gout. of India.

PUBLIC WORKS DEPARTMENT.-BENGAL

IBRIGATION BRANCH.
Statement showing heights over mean sea-level and low water on Rivers Gauger, Bhagiruthee, and Brahmapootrs for the month of Inne 1883.

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Under Secy. to the Govt. of Bengal, P. W. Dept.

Daled 27th July 1888.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 21st July 1883 on 1,509 miles open.

10 a - 27	COACEIE	9 TRAFFI	C.	MERCHANI		AND MIN	BRA	8.	Other ent		Total ear	miner		PAIN-NILE	RUM.
1200	Number of	Conch		Weight carr	ied.	Recei	pta.		(cutimat	ou).	10:5: 05:	corodit	Onaching.	Marchan-	Total.
		Ro.	A. 1	Mds.	8.	Re.	Δ.	P.	Re.	A. P.	Re.	å. 1			
Total traffic for the week Or per mile of railway	190 900	1,85.461	6 0	34,03,657	80	6,17,703	9 5	7	18,967	11 7	8,94,439 846	10 7	61,219	126,0001	188,2191
For previous 2 week of half-	437,621	4,33,286	3 0	51,80,747	20	15,55,257	6	9	-80,891	16 0	20,30,905	8 6	196,793	831,6824	459,635
Total for 8 week Companion.	624,421	6,24,617	9 0	73,53,405	10	21,72,960	15	9	57,850	10 4	\$8,58,236	8 1	189,912	457,6328	640,8462
Total for corresponding week of previous year Per unic of railway correspond-	164,258	1,88,208	0 0	24,03,820	10	6,96,406	В	3	16,146	15 1	9,60,851	15 4	80,943	151,490	202,503
Total to corresponding date of previous year	542,024	124 6,11,867	14 7 5 6	71,86,180	30	463 19,40,790	7	1	10	11 5	807 86,06,708	4 8	126,966	\$81,815	539,357

BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

	allest retui	700		Length	Rucuii	TS :	POR	WHER HAD	INC		TOTAL			PTS FROM I	IST	Total inc	*****		Total	Percentage
	PROCIPES.		Name of Railway.	open.	17th June	n 18	32.	10th June	18	88.	To 17th	Ju	no i	To 16th 1888.	June	ata 16			dear-mae	of merense or decrease.
	1.083.	п		Miles.	Ra.	Δ.	2.	Ra.	A.	2.	Ra.	Δ.	P.	Ro.	A. P.	Ro.	A. J	P.	Ba. A. P.	Re.
brite	June Dirto Dirto	***	Northern Bengal Tirhoot Calcorta and South-Bastern. Nalnati	230 1582 43	36,300 11.111 2,315 1,485	0 0	0 0 0	88,632 17,716 8,648 1,890	0 0 0	000	028,70,8(a) 2,20,038 3,20,038 3,216	0000	0 0 0	10,84,519 3,50,154 1,48,333 40,170	0 0	1,76,068 71,002 86,295 6,858	0	0 0	******	+10 +21 +66 +17
			Total	450	81,179	0	0	64,280	0	0	18,00,101	•	•	16,64,976		8,11,815	0	0		+ 23

(c) -- These include the supplementary figures for quarter ended 31st March 1863,

DARJEELING-HIMALAYAN BAILWAY COMPANY, LIMITED.

Weakly Statement of Traffic Receipts.

The latest roturn	famesh.	BECHIPTO FOR	WHEE SEPTION	TOTAL BECMPTS 1	PROSE IST JANUARY	Metal impress	Should deserve	Percentage
received.	Length open,	24th June 1982.	23rd June 1883.	To Sath June	To 23rd June 1523.	Total increase in 1883.	Total decrease in less.	increase or ducrease
7th Jaly 1888	80	Ro. A. P. 8,850 1 9	Ra. A. P. 8,254 4 9	R4. A. P. 1,06,377 9 0	Ra. A. P. 1,78,069 4 5	Ha. A. P. 11,681 11 5	No. A. P.	+7%

N. B .- During this week communication was temporarily interrupted.

Calcutta, the 27th July 1883.

GILLANDERS, ARBUTHBOT & Co., Agenta.



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 8, 1883.

OFFICIAL PAPERS.

Non-Subscribers to the Garrer may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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Bengal as reported to Government during the week endows the 4th August 1883. The following Statement shows the quantities of the	1179	Statement showing the results of the Registration of Births and Deaths in the First Class Municipalities in Bougal during the week ending 21st July 1883	1100
principal staples of Traffic imported into Calcutta from the interior during the month of May 1883. The following Statement shows the values, quantities,	1181	Results of the Meteorological Observations taken at the Alipore Observatory from 29th July to 4th August 1885	1201
and numbers of the principal staples of Traffic exported inland from Calcutta during the month of May 1883. Statement showing the stock of Rice in and around Oslautta	1189	Results of the Thermometrical Observations taken at the Meteorological Office, Observations, from 20th July to 4th August 1863 Statements showing the total amount of Traffic and Tolls on the Croular and Eastern Canals and Nuddea	1905
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RESOLUTION ON THE REPORT OF THE PORT OFFICER, CALCUTTA, FOR THE YEAR 1882-83.

GENERAL DEPARTMENT—MARINE.

Calcutta, the 7th August 1983.

BESOLUTION.

READ-

The Annual Report of the Port Officer, Calcutta, for 1882-83.

The report is submitted by Lieutenant Brebner, who assumed charge of the department at the close of the year, on the departure of Lieutenant Stiffe on furlough. Mr. Yates, Deputy Conservator of the Port, officiated as Port Officer for three months of the year.

2. The total strength of the Pilot Service at the end of the year, inclusive of 27 leadsmen apprentices, four of whom arrived during the year, was 89. Two casualties occurred among the pilots during the year; but as three leadsmen apprentices passed the pilot's examination the number of qualified pilots was raised from 61 to 62. It was proposed by the Port Officer that the rules for the promotion of leadsmen apprentices should be so relaxed as to admit of first-mate leadsmen appearing at the pilot's examination after holding their first mate's certificates for one year, without their having actually served in that capacity on board the pilot brigs; but the Lieutenant-Governor was unable to sanction the proposal. No public inconvenience was shown to have as yet arisen from the strict enforcement of the rule requiring leadsmen apprentices to do duty as first mates on board the pilot brigs

for at least one year before their admission to the rank of pilots; and it was, therefore, deemed inexpedient to remit any portion of the training on board the brigs which has hitherto been insisted on. The system of obtaining the leadsmen apprentices from the training ships at home continues to work well; but the Port Officer rightly draws attention to the necessity for a very stringent medical examination of the candidates in England and for carefully testing

3. The number of arrivals during the year was 1,157 vessels, with a gross tonnage of 1,982,187 tons, and of departures 1,141 vessels, with a gross tonnage of 1,979,107 tons, showing an increase of 160 vessels and of 879,205 tons, inwards and cutwards, over the previous year. The year under review therefore shews the largest number of ships that has ever been recorded for any year, except 1877-78, when the Madras famine caused an unusual development of the export trade in grain. Of the total number of arrivals and departures (2,292), 1,238 were steamers and 1,054 sailing ships, and of the latter 1,066, or 954, made use of tugs in proceeding up and down the river under pilotage charge. There was a further increase in the number of vessels of heavy draught, which has risen so greatly in recent years, as shown by the following statement of vessels which drew 21 feet and upwards on their way up and down the river:—

			Above 21 to 22 feet.		22 to 23 feet.		o 24 mt.	- 44	24 to 25 feet.		25 to 26 feet.		to 27	Total 1883-83,		Total 1884-63.	
		In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.	In.	Out.
Steamers	611	32 64	84 194	34	106	14	19	5	42	1	8	***		96 98	825 313	63 80	800 184
Total		90	-3128	63	166	16	108	6	42	1	8		2	184	638	159	490

The increase not only in the number but also in the draught of vessels has obviously added to the difficulty of pilotage in the Hooghly, as well as increased the work of the Pilot Service; and the Lieutenant-Governor is, therefore, glad to learn that the conduct of the Service generally continued very satisfactory during the year.

4. The earnings of the pilots have necessarily grown with the increase in the shipping of the port. During the year the Branch Pilots piloted on an average 5.28 vessels a month, the masters 4, and the mates 3, these averages being such as to afford ample remuneration to each grade, and to leave no room whatever for complaint. Forty-three vessels were also placed in charge of leadsmen apprentices, in the temporary absence of pilots in each case. While, however, the carnings of the Pilot Service have been larger, the mercantile community has also benefited considerably from the reduction of pilotage by 15 per cent. carried out on the 1st August 1881. The amount thus remitted in the past year was Rs. 1,53,878.

5. The year was unfortunately marked by a large increase in the number of casualties to vessels in charge of pilots, 51 cases of grounding and 25 collisions having occurred against 33 cases of grounding and 12 collisions in the previous year. The groundings resulted, in one case, in the total loss of the vessel, and in another in considerable damage; but in most of the remaining cases no damage was done. In five cases the pilot was warned, and in one case he was placed on half-earnings for three months. Of the collisions eighteen were either unimportant or accidental, and of the remaining seven cases one was due to the mismanagement of the pilot, three to country boats, and one to the unskilfulness of the steam-tug pilot. Seven were attended with no damage, thirteen with damage, and one with serious damage. In one case an inland steamer, in another a steam-tug, and in two cases boats were sunk. The total casualties of the year gave a percentage of 3.31 on the number of ships, as compared with 2.106 in the previous year.

6. Two Marine Courts and seven departmental enquiries were held during the year to investigate the conduct of pilots in connection with casualties which had occurred to vessels in their charge. In one case, already referred to, the pilot was severely consured and reduced to half-carnings for three months for grounding his ship on the edge of the Gasper Sands, and in another

a steam-tug pilot was suspended for 12 months for unskilfulness in causing a collision between the vessel in tow of his steamer and another vessel riding at anchor in Diamond Harbour. The other cases resulted in the acquittal of the pilots. Besides these enquiries into the conduct of pilots, five Special Courts were convened under Act IV of 1.875, to enquire into casualties to ships, and two investigations were held to ascertain the cause of the loss of the inland steamers Oude and Goalpara, in Garden Reach and the Sunderbuns respectively. The most important of the cases which came before the Special Courts were the wreck of the barque Mohusser, on Saugor Sand on the 1st May 1882, with the loss of 36 lives, including 25 native. passengers, and the stranding and abandonment of the barque Aberdeenshire, on Subtermookee shoal, in the Sunderbuns, on the 6th October 1882. The Court, in the former case, blamed both the master and the pilot; but the latter on being subsequently tried under Act XII of 1859, was acquitted. In the case of the Aberdeenshire the loss of the vessel was proved to have been caused by the unskilfulness of the commander; and it is to be regretted that he was not placed on his trial by the Court. The inland steamer Oude was sunk in consequence of collisions with two vessels in Garden Reach; and the inland steamer Goalpara by grounding on a mud lump at the junction of two rivers in the Sunderbuns. In both cases the masters were exonerated from blame.

7. The S. S. Undaunted, besides making the usual trips to the pilot and light-vessels at the Sandheads and visiting the Mutlah and the Orissa ports. was used during the year to tow a hulk laden with mooring tackle and an anchor boat to Chittagong, and to lay a whistling buoy on the South Patch Shoal lying beyond that port. One of the pilot brigs having been condemned, only two were available for service at the Sandheads during the year. The Lieutenant-Governor regrets the inconvenience which was, in consequence, occasionally caused to the shipping. A new brig is expected to reach the Port from home

8. Ninety-one candidates appeared for examination for colonial and local certificates of competency of the various grades, of whom 65 passed. The colonial certificates granted comprised 6 master's, 11 first mate's, 2 second mate's, 2 first class engineer's, and 6 second class engineer's; and the local certificates, one master's, I first mate's, 4 second mate's, 2 first class engineer's, 4 second class engineers's, 23 engine-drivers', and 1 first class engineer's, and 2 second class engineer's, for inland service. There were seven candidates for certificates as commanders of inland vessels, of whom six were successful. Five vessels were registered under the Merchant Shipping Act of 1854; and the registry of 16 was cancelled. One vessel only was registered under the Indian Act, X of 1841. A and B certificates, under the Native Passengers Act, VIII of 1876, were issued by the Port Officer during the year; while the surveys were carried out by the Port Commissioners' Engineer-Surveyor. This arrangement appears open to improvement, and the Lieutenant-Governor is now considering whether it would not be more convenient to place the granting of the certificates, as well as the surveys, in the hands of the Port Commissioners. The matter will be separately dealt with.

9. Lieutenant Stiffe's management of his department during the year

was entirely satisfactory.

By order of the Lieutenant-Governor of Bengal,

A. P. MACDONNELL,

Offg. Secretary to the Govt. of Bengal.

RESOLUTION ON THE REPORT ON THE CALCUTTA MEDICAL INSTITUTIONS FOR 1883.

MUNICIPAL DEPARTMENT—MEDICAL.

Calculta, the 2nd August 1883.

RESOLUTION.

READ-

The Report on the Calcutta Medical Institutions for 1882.

Read also—

The Report for 1881, and the Resolution recorded upon it.

The year 1882 was marked by a large increase of cholera in the town of Calcutta. The previous year had shewn a considerably larger number of deaths than 1860, and this increase was more than maintained during the year under review. The following statement shews the mortality from the most important diseases in each year since 1873:—

	Yn	ARO.			Cholera.	Diarrhosa and dysoutery.	Pevers.	Small-pox.	Other causes.	Total.	Ratio per 1,000 of population, ounsus 1881.
1878 1874 1876 1876 1877 1878 1879 1880 1881	*** *** *** *** *** *** *** *** ***	004 014 017 000 040 000	0.0		1,105 1,265 1,674 1,861 2,414 1,538 1,186 608	1,351 1,359 1,579 1,546 1,653 2,010 1,516 1,257 1,491	4,63\$ 4,461 5,328 4,361 5,151 6,696 4,796 8,797 3,766	33 120 7:0 71 67 1,496 773 114	3,285 6,343 4,745 6,817 5,365 5,467 6,776 5,496 6,046	10,856 71,627 74,086 12,864 13,706 16,386 13,044 11,981 13,039	23.6 26.6 32.5 31.5 31.6 37.8 37.8 30.1
	Meas	n nus	nber		1,341	1,548	4,727	364	4,748	12,714	. 2913
1862	***	***	***	***	2,240	3,454	3,618	17	6,84H	18,177	80.4
	first qua		er	801	660 460	487 430	921 1,107	88 146	1,438	3,434 3,330	81'7 30'8

The figures for cholera shew that the mortality from this cause steadily increased from 1873, the first year of the series, to 1876. From that year the wave of disease began to recede, and the number of deaths continued to fall till it reached a minimum of 805 in 1880. During 1881 there was a large and sudden rise to 1,693, and this number has further increased during 1882 to 2,240, which is considerably the highest recorded during the past decade. There was, on the other hand, a remarkable decrease in the number of deaths from small-pox, and a slight, though sensible, diminution of fevers, diarrheea, and dysentery. The total death-rate of the town from all causes was 30.4 per mille against 30 in 1981 and 29.3, the average of the previous 10 years. After allowance made for the inevitable disturbing elements, these figures are reflected with tolerable accuracy in the hospital returns. The following statement shews the number of deaths from the principal diseases in each of the Calcutta hospitals during the year, together with the number of cases treated:—

	,		Chol	ora.	Diarrho		Fovers.		Small-pox.		Other causes.		Total.	
			Oanos.	Died.	Cases,	Died.	Canes.	Died.	Cases.	Died,	Cases.	Died.	Cases.	Died,
Medical Coll General Mayo Campball Police Howrah	ditto ditto ditto ditto ditto ditto	040	182 62 279 186 18	77 86 143 184 7 73	330 87.6 238 1,141 460 879	63 10 32 085 7 166	841 059 377 3,281 1,009 289	41 14 42 280 5	25	******	8,894 7,199 1,281 8,036 948 804	420 81 182 444 14 66	4.947 8,395 8,125 6,669 2,438 1,604	601 240 361 1,401 31
	Total	***	889	468	2,923	864	4,156	860	28	3	12,111	1,175	20,078	2,

The number of cholera cases treated during the year rose from 589, with 304 deaths in 1881, to 859 cases, with 468 deaths during the year under review, the death-rate per mille rising at the same time from 516 to 544. The fluctuations in the mortality from fever in the town and in the hospituls were slight. The record of the town is, for reasons that have been stated on previous

occasions, fallacious, and no comparison can be instituted. Generally described, the year was unhealthy, and the mortality from all causes was above the average.

2. The following table shows the number of patients treated in each of the Calcutta hospitals during the year:—

		18	88.			101	B1.	
Medical Institutions.		Total treated		Died		Total treated		Died per
_	In-door.	Out-door.	Total.	per mille of treated.	In door.	Out-door.	Total.	mile of treated.
Medical College Hospital	8,448 8,295 2,125 5,669 2,43d	30,319	44,777 8,95 1,84,288 8,660 2,438	191'5 44'91 173'46 347'83 13'58	6,381 2,863 1,125 6,074 2,681	59,985 1,83,384	64,466 2,863 1,85,479 6,074 2,681	120°00 47°45 153°57 207°4 13°05
Total Calcutta Hospitals Howrah General Hospital	18,975 1,604	2,21,492 11,013	2,40,467 12,616	188'89°	19,126 1,040	3,42,459 12,511	2,61,563	138'31 192'07
GRAED TOTAL	20,879	3,32,504	. 2,53,063	143'73	20,764	2,54,956	3,75,714	143'68

^{*} Reckened on the cases treated, exclusive of those of the Eye lufirmary.

For the second year in succession there was a falling off in the number of in-patients, the number being 20,579 against 20,764 in 1881, and 21,548 in 1880. The decrease was confined to the Campbell, Police, and Howrah hospitals, in the first-named of which it was most considerable. This is the more remarkable, because in the previous year a large part of the building was for some months closed for repairs, and the accommodation was thus much reduced. The Superintendent and the Surgeon-General ascribe the reduction in the number of admissions to a diminution in the prevalence of fever and dysentery, and an increase in severity among such cases as did occur. No figures are given of the average detention in hospital of patients suffering from these diseases, but a decided increase is observable in the fatality from the first-named. In 1881 there were in the Campbell Hospital 1,548 cases of fever with 250 deaths, giving a death-rate per mille of 168.5. In 1882 there were 1,281 cases with 239 deaths, and the death-rate rose to 1865. There was no sensible change in the fatality from diarrhea and dysentery combined, the rates per thousand in the two years being 5.12.9 and 512.8 respectively. The Surgeon-General remarks that in this hospital, of late years, mean daily numbers have borne a larger proportion than they formerly bore to numbers admitted, and that this circumstance points in the same direction. The Lieutenant-Governor observes, however, that this proportion was less in the past year than in 1881, the figures being 1: 15:2 and 1: 17:3 respectively. There is scarcely sufficient evidence, so far as appears from the report, to show that the decrease in the numbers admitted during 1882 is attributable to greater severity of disease. The falling off is not very considerable in itself.

3. There was a large decrease in the number of out-door patients treated in 1852, the numbers falling from 2,54,950 to 2,32,504, or by 22,446. The decrease was most considerable at the Medical College Hospital, where it amounted to 19,756. It appears, however, that this fall is for the most part only apparent. "An erroneous method of entering cases as new, which were not new, was corrected in 1881. The correction reduced the figure of 1882 by upwards of 15,000. Further, up to September 1881 there had been an objectionable practice of treating in private rooms as out-patients persons who had no right to hospital treatment. This was stopped, but not until it had added 4,198 cases to the records of 1881." It is stated that the total number of new cases, properly so considered, amongst the out-patients of 1882, was 31,537. The following table shews the daily average number of patients under treatment in 1882:—

			1001,	incom 18	89
1 100		In-door.	Out-door.	In-door.	Out-door,
Medical College	141	276.7	385.4	282.3	295.4
General Hospital		136.4	40000	151.0	
Mayo Hospital		97.3	1,349.4	82.7	1,2147
Campbell Hospital		372.3	4 * 0 1 6 *	350.6	*****
Police Hospital		98.7		83.3	*****
Howrah General Hospi	tal	63.2	110.4	65.7	. 96.2

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The three hospitals which treat out-door patients—the Medical College, Mayo, and Howrah Hospitals—all shew a decrease in the average daily attendance, which indicates sickness of less severity among out-patients generally during 1882. This is somewhat remarkable, as being at variance with the mortality record of the in-patients treated at the hospitals, and also with the death returns of the town at large.

4. The following statement shews the mortality in each of the Calcutta

hospitals during the last eight years :-

					ye latirmat			Cholera.		Donth-rate,	Number of	Bate per mille of population.
	Y	Barn,		Treated.	Died.	Died per milie.	Treated.	Diod.	Died per mille.	cholera.	deaths recus- tered by the municipality,	
1875 1876 1977 1978	444	***	*** *** ***	22,062 21,047 23,177 27,168	3,641 3,04 3,172 4,519	168 165 132 161 162	724 695 545 570	371 369 246 323	500 636 123 746	188 182 121 123	24.046 12.964 13.764 16.596	32.7 30.1 31.9 56.1
1879 1890 1881 1882	***	04 4 4 4 4 4	***	22,197 21,032 20,156 20,078	2,446 2,446 2,876 3,556	102 134 142 163	850 850 850	861 183 804 468	533 516 516 546	120 131 131 126	13,044 12,481 13,030 18,177	80 8 27 1 30 0 80 4

The death-rate, excluding cholera, was remarkably low, being only 125 per 1,000, against 131 in each of the two previous years. Even if deaths from cholera are included, the rate was only 1 per cent. higher than that of 1881. As already pointed out, the death-rate of the town, as distinguished from that of the hospitals, was high, though the rate of increase above the figure of 1881 was less. The following table shews the true death-rate among natives, when deaths from cholera and moribund cases are excluded:—

	Campbell Hospital.	Medical College Hospital,	Howrah Hospital.	Mayo Hospital.	Police Hospital.	Total.
True native deaths, excluding cholers	1,989	409 120	227 54	226 38	86	2,161 4/13
Difference	1,078	289	178	188	23	1,751
True death-rate per mile, excluding cholers and moribunds	204'32	120 87	223'8	103.08	9.23	138'26

This shews that, except in the Mayo Hospital, where there seems to have been a considerable and unexplained accession of fatal disease, the true death-rate was in every case slightly below that of the previous year.

5. The Surgeon-General makes the following remarks regarding the pre-

valence of particular diseases during the year :-

The town was exceptionally free from small-pox in 1882, only 17 deaths appearing on the municipal register. As 28 cases were treated in hospital with only three deaths, the disease must have been mild as well as scarce. If it were fatal in the same ratio in town, the recorded deaths would represent 158 cases, shewing that less than one-fifth of the cases appeared in hospital. The proportion was probably larger than this, as it may be presumed that fatality was greater outside the hospitals. The quantity of fever treated in hospital was less by 693 cases than in 1881. In all the hospitals, except the Police, fever was much more fatal in 1882 among natives than in the previous year, and less so among Europeans in all but Howrah. Cholera increased, and its death-rate was higher than in 1881. There were 589 cases treated in 1881 and 459 in 1882. Dysentery fell both in quantity and severity. Diarrhose shewed an increase in quantity and in fatality. The distribution of these affections in the several hospitals shows that the figures largely represent final stages of general exhaustion rather than distinct diseases.

6. In the Report for last year, and the Resolution recorded upon it, the Listerian method of treatment, and the alleged prevalence of hospitalism in the Medical College Hopital, were treated at some length. It was then stated that "the evidence hitherto available affords no means of determining how far the successful results obtained in the different hospitals are attributable to the strict observance of Lister's system, how far to the use of simple antiseptics and to the general improvement in cleanliness and care which has resulted since attention was directed to the subject, and how far to independent circumstances." So far as the abstract value of Listerism is concerned, there is nothing of importance to add to the above. The Surgeon General is, however,

of opinion that the events of the past year have finally set at rest the controversy as to the fitness of the Medical College Hospital for the treatment of surgical disease. The surgeons of both wards continued to use the systems employed by them in the previous year. Dr. MacLeod, in the first ward, carried out the Listerian method in its entirety; while Dr. Raye confined this method to severe cases, using less elaborate dressings in his less important cases

7. In the two wards together, there were, apart from ophthalmic cases, 279 important surgical operations, which were followed by death in 29 instances. In 1881 there had been 252 operations with 54 deaths. There was thus a very marked improvement in the degree of mortality after operative surgery in all cases taken together, and this is stated to have been accompanied by increased strictness in the application of antiseptic dressings. On the other hand, it does not appear that there was any improvement on the results of the previous year in cases of exceptional severity which were employed as "tests." In 1882 there were 16 operations for excision of bones and joints, with 3 deaths. In 1881 there had been 11 such operations with one death. In 1882 there were 24 major amputations with 8 deaths. In 1881 there had been 17 with 6 deaths. The Surgeon General points out that in both years Listerism was most strictly used in this class of cases, and that the fluctuations are probably due to other causes. At the same time a greater degree of strictness in the application of antiseptic treatment (as distinguished from strict Listerism) in ordinary cases has been followed by a large reduction of mortality. A comparison of the relative results obtained during 1881 and 1882, respectively, in the General, Mayo, Campbell, and Howrah Hospitals, where no change of system was introduced, shows some improvement in the first and last named, and some slight retrogression in the other two. The Surgeon-General sums up the discussion with the following remarks, in which the Lieutenant-Governor generally concurs :- "It must be admitted, I think, that the year was, from some unknown cause, favourable to surgical work; but it cannot be said that the other hospitals have given evidence which refutes the opinion of the College Surgeons on the greatly reduced mortality after operation in their wards. If, on the other hand, this opinion be adopted, it will not explain increased fatality in test cases in 1-82, nor the fact that, in these cases, results as good, if not better, are obtained elsewhere with less elaborate and costly appliances. The antiseptic method is apparently the best that has yet been invented, but the measure of its superiority has yet to be taken, and the advantage of strict Listerism seems doubtful in hospital practice; while, as a system to be taught exclusively to pupils, it is not desirable."

8. The following table shews the number of cases of enteric and remittent fever treated at each of the hospitals during the year:—

	1874.	1575.	1576.	877.	78.	6			-1			. 1	. 1	. !	. 1		. 1		
		A-THE-	-	-	18	1879	20	1881	8	1678	1974	1875	1976	1877	0000	1679	1580	146)	1862.
Medical College Hospital 9 Presidency General Hospital 6 Howeth Hospital 22 Mayo Hospital 28 Police Hospital 88	5 11 1 8	6 12	6 14	1 18 6 11	9 0	\$ 11 4 	6 2	31 8 1	19 8	85 13 212	88 10 146 22 408	123 486 172 35 460	95 27 210 30 33	194 309 309 174 432	159 88 893 924 460 11	164 244 130 334 29	180 40 107 205 354 25	196 32 77 231 309 88	156 46 71 145 301 41

The 15 cases of typhoid all occurred among Europeans, and were confined to the General and Howrah Hospitals. The decrease of remittent fever was shared by all the institutions except the Presidency General Hospital.

9. In the Ophthalmic Hospital 501 in-door and 7,792 out-door patients were treated, against 608 and 6,606, respectively, in the previous year. The number of operations performed was 275 against 352. In 200 cases the patient was discharged cured, and in 28 relieved. Thirty-three cases remained under treatment at the end of the year.

10. The Eden Hospital for women was opened in July 1882, and the public took full advantage of the excellent accommodation it affords. The daily average of house-patients, which, during the first half of the year, when

the old obstetric ward was in use, had been 30.9, immediately rose to 43.3. The establishment of the new hospital was reorganized, and has now been placed on a satisfactory footing. Pupil nurses are still employed, but they are no longer relied on to do the main part of the work. For this a sufficient staff of trained nurses from the Canning Home has now been permanently entertained. 'The Surgeon General considers it satisfactory "that the Eden Hospital, with imperfect nursing and other disadvantages inseparable from a commencement, should have already given evidence of having met a public want." The total number of cases treated by the obstetric physician during the year was 1,323, of whom 802 were European and 521 native patients. The number of deaths was 75 against 76 in the previous year, out of a total of 1,008 patients.

11. In the Medical College Hospital the number of in door patients treated was 4,947, exclusive of ophthalmic cases, against 4,773 in the previous The number of deaths was 611, or at the rate of 128 per 1,000, against 129 in 1881. This rate is the lowest on record since 1875, except that of 1877. Of the patients treated, 2,287 were Christians and 2,660 natives, the death-rates of the two races being 59 and 178 per 1,000 respectively. The death-rates from fevers of Christians and natives were 37.4 and 139.5 respectively; from dysentery and diarrhosa, 127.1 and 226.4; from cholera, 363.8

and 436.2; and from chest-affections, 55.1 and 314.6.

12. In the Presidency General Hospital the total number of patients treated rose from 2,863 in 1881 to 3,295. Of these, 1,735 were sailors, and, of the remainder, 444 were paying and 1,116 non-paying patients. The number of paying patients was considerably in excess of that of the previous year, when it had been only 239. The number of deaths was 148 against 137 in 1881, and the rate of mortalny per 1,000 treated was 44 against 47, 32, and 45 in the three preceding years. There were 62 cases of cholera with 34 deaths, and 195 cases of dysentery with 8 deaths. Typhoid fever, remittent fever, and phthisis accounted for 6. 4, and 9 deaths respectively.

Quadrennial repairs were carried out during the year to the eastern building; but it is reported that the western block is generally in a bad state of repair, and that the floors in particular require renewing. On a recent personal inspection of the Hospital, the Lieutenant-Governor noticed the bad condition of the flooring. The attention of the Public Works Department will be drawn to this. Much, too, may be done for the improved appearance, if not for the sanitation of the place, by clearance of the trees and vegetation to the south of the spacious grounds in which the Hospital stands. The nursing arrangements are under the supervision of the Clewer Sisterhood, and are said to have been carried out with energy and efficiency. Not a single complaint was received during the year concerning the dieting of the patients, and Dr. Birch writes that, "comparing our diet-scale with that of London and Australian hospitals, I find no scale so liberal as ours." Since the close of the year a scheme has been submitted to Government for the supply of filtered water to the wards direct from the mains. The Lieutenant-Governor would be glad to see this carried out without delay, and a reference has been made to the Calcutta Corporation on the subject.

The number of admissions into the Campbell Hospital during 1882 was 5,290 against 5,675 in 1881, being a falling off of 385 patients. The Surgeon-General's explanation of this, which appears to be in some degree conjectural, has been alluded to in paragraph 2 above. The largest number of admissions was, as usual, on account of malarious fevers, being 1,247 against 1,491 in 1881. Next in order were dysentery, diarrhoea, ulcers, and splenic affections. Cholera cases rose from 78 in 1880 and 132 in 1881, to 186 in the year under review. Small-pox and phthisis, on the other hand, shewed a large falling off. The total number of deaths was 1,405 against 1,442 in 1881, and the death-rate per mille was 247 against 237. The increase is said to be due to the larger number of cholera cases treated during the year, and of moribund persons admitted. The true death-rate of the hospital per 1,000, excluding cholers and moribund cases, was 204 against 206 and 204 in 1881 and 1880. Certain minor improvements were effected in the interior arrangements of the hospital, and others have been projected. The plans and estimates should be submitted to Government without delay for consideration in the Public Works Department.

14. The number of admissions into the Police Hospital indicates some improvement in the health of the force during the year. They amounted to 2,394 against 2,589 in 1881 and 2,625 in 1880, out of a total strength of 2,806. The daily average number of sick was 83 against 98 and 107 in the two previous years. Malarious fevers shewed a decrease from 1,061 to 860, and there was also a slight decrease under dysentery, diarrhea, and remittent fever. There were three cases of modified small-pox, and 18 of cholera, of which 7 proved fatal. The total number of deaths was 33 against 35, 30, and 36 in the three preceding years, and the death-rate per mille was 13.4, as compared with 13.5 in 1881.

15. The aggregate numbers of patients treated in the Mayo Hospital and

dispensaries were as follows:-

			1882.	1691.
In-patients	Total treated Daily average		2,125	2,125
In-bactours	Daily average		82	97
Out-patients	{ Total treated Daily average	• • •	182,163 1,214	183,354 1,349

In-patients are treated only at the Mayo and Chandney Hospitals, where they numbered 1,885 and 240 respectively. In both cases there was a decrease in the daily average compared with the previous year, the numbers being 77 and 5·3 in 1882, against 91 and 5·8 in 1881. This falling off has not been explained. In the Mayo Hospital there were 133 deaths from cholera out of 261 persons treated, or at the rate of 50·9 per cent. In the previous year the corresponding figures had been 83, 160, and 51·8 respectively. In the Chandney Dispensary there were only 18 cases of cholera against 36 in 1882. These figures do not correspond with the known increased prevalence of cholera in the town and suburbs, which caused more admissions and mortality in all the Calcutta hospitals in 1882 than in the preceding year. The general rates of mortality in the two institutions were 18 5 and 8·3 per cent. respectively.

In the Mayo Hospital the number of out-patients fell from 48,059 in 1881 to 43,012 in the year under review, the average daily attendance being 310 against 886. The explanation offered by the Superintendent is that the system of giving more than one day's supply of medicines was more extensively carried out during the year. The Surgeon-General, however, correctly points out that this will not explain the decrease in total numbers, and that it does not go far towards explaining reduced average, as the average number of times that each patient attended was less by only a small fraction than the corresponding number of 1881. In the Chandney Dispensary the total number of out-patients rose from 68,592 to 70,525, but the daily average attendance is said to have been only 405 against 460. No explanation is offered of this discrepancy. Dr. Simpson makes the following remarks concerning the recorded figures of the practice of the Mayo Hospital and associated dispensaries:—

The composition of these large figures shows that further enquiry is necessary before they can be accepted. The proportional numbers of the several kinds of cases entered are very unlike those which obtain elsewhere. The scarcity of cholera cases in the past year has been noted; of fever an enormous quantity is recorded, viz. 13,325 cases among outpatients; but of spleen diseases, allied to fever as its result, only 1,227 cases. At the Mayo Hospital the corresponding figures are 4.993 and 2,454, at Sookea's Street 3,057 and 1,479, at Chitpore 2,638 and 549, at the Medical College 6,065 and 1,187. In a total number of 70,525 patients, there are at the Chandney Hospital no less than 7,126 cases of "worms" returned, or 10·1 per cent. of the total. At the Mayo Hospital there were in all 43,012 out-patients with 404 cases of worms or 0·9 per cent. At Sookea's Street we have 15,688 patients with 571 cases of worms, at Chitpore 21,135 with 133, at the Medical College 31,537 with 361 cases, and at Howrah 11,012 cases include only 80 cases of worms. In the provincial dispensaries the proportion of cases of worms to total number was 2·8 per cent.

These facts are certainly remarkable, and appear to throw some doubt on the accuracy of the returns. The Surgeon-General's remarks will be brought to the notice of the Governors of the Mayo Hospital, who will be requested to institute an enquiry into the method of recording patients.

16. In the Howrah General Hospital the total number of patients treated was 12,616 against 14,151 in the previous year. Of these, 3,970 were Europeans and 8,646 natives. In-patients numbered 1,694, of whom 669

were Europeans and 935 natives. The out-door patients numbered 11,012,

				1002.	1981.
Europeans		000	• • •	 3,301	3,761
Natives				 7,711	8,750
				-	-
	•		Total	 11,012	12,511

The large decrease in the number of native out-patients is attributed to the greater healthiness of the season; 351 European seamen were treated in hospital against 276 in 1881. There were 32 deaths among European and East-Indian patients, and 288 of natives, giving death-rates per mille of 47.83 and 305.02 respectively. The death-rates in 1851 were 44.77 and 293.81. There were 132 cases of cholera with 73 deaths, against 69 and 36 in the previous year. The mortality from fevers and dysentery was greater, and that from diarrhoea less than in 1881. It is stated that a very large proportion of deaths which occurred among native in-patients was due to the hopelessly advanced stage in which municipal paupers were sent to the hospital. This will be brought to the notice of the Municipal Commissioners of Howrah.

The invested capital of the Calcutta hospitals, which on the 31st December 1881 amounted to Rs 5,34,700, was increased by Rs. 9,000 during the year, of which Rs. 5,000 belongs to the Mayo and the balance to the Howrah Hospital. The total expenditure from all sources amounted to Rs. 3,69,304, not including investments, against Rs. 4,03,250 in 1881. was a reduction under every head of expenditure except miscellaneous charges, which increased from Rs. 35,914 to Rs. 43,989. The chief reduction was under the head of buildings and repairs, the expenditure on which fell from Rs. 74,309 to Rs 43,174. This was principally due to the heavy expenditure incurred in 1851 on the renovation and repairs of the Campbell Hospital. The net cost to Government of all the hospitals was Rs. 2,32,224, against Rs. 2,68,388 in the previous year. The total income from local sources of all kinds was Rs. 1,49,655 against Rs. 1,39,739.

18. The income of the Medical College Hospital from local sources was

Rs. 11,99", of which Rs. 8,846 represents receipts from paying patients. corresponding receipts in 1881 were Rs. 4,351. The increase in receipts from this source is highly satisfactory, as indicating that the hospital is beginning to be accepted as supplying a long felt public want. The net cost to Government, after deduction of the amount remitted to the treasury, was Ks. 80,170 against Rs 83,714 in 1881. The total expenditure of the hospital rose slightly from Rs. 89,184 in 1881 to Rs. 89,631, the increase being under the heads of diet and establishment. There was a reduction in the cost of Europe medicines from Rs. 9,204 to Rs. 8,268, including both the College and the Associated Choonee Lal Scal's dispensary, and in bazar medicines from Rs. 1,227 to Rs. 816. This, however, is partly due to the fact that in 1881 expenditure which should have been charged to miscellaneous was debited against this head in the dispensary. The total cost of diet and stimulants was Rs. 26,293 against Rs. 25,787 in 1881, the increase being mainly due to the larger number of patients treated. The average cost of diets was 6 annas for Europeans and 2 annas 7 pies for natives, against 6 annas and 2 annas 6 pies respectively.

19. At the Presidency General Hospital the total receipts from all sources rose from Rs. 39,235 to Rs. 41,661. The amount received from paying patients was Rs. 13,089 against Rs. 7,914 in the previous year, being an increase of Rs. 5,175. This large and satisfactory increase is ascribed by the Superintendent to improvements in the comfort and accommodation of paying patients. The receipts from the Port Fund on account of sailors, however, shew a decrease of Rs. 2,787. The Superintendent has again represented that the fee charged for treatment of sailors is insufficient to cover the expenditure incurred in the hospital. The Lieutenant-Governor's orders on this question were notified in the Resolution recorded last year. No increase

in the rate of fee can at present be sanctioned.

The total expenditure on the hospital was Rs. 1,00,900 against Rs. 1,05,894 in 1581. The outlay on the sick was Rs. 90,778. There was a reduction in the cost of establishment from Rs. 53,854 to Rs. 48,678, and an

increase under basar medicines, diet, and miscellaneous. The cost of diet and stimulants rose from Rs. 24,163 to Rs. 26,423, the increase being due to the larger number of patients treated in 1882. The average cost of each diet was 7 annas 7 pies against 7 annas 9 pies in 1881. The expenditure on buildings amounted to Rs. 10,122, including a sum of Rs. 6,317 spent on quadrennial

repairs to the hospital.

20. The total receipts of the Campbell Hospital amounted to Rs. 31,443, including the donation of Rs. 30,000 from the Calcutta Municipality. The total expenditure was Rs. 78,498, against Rs 1,02,773 in the previous year. In 1881, however, there was exceptionally heavy expenditure on buildings. The amount spent on the ordinary requirements of the hospital in 1832 was Rs. 58,404 against Rs. 53,299 in 1881. The cost of establishment was Rs. 24,697, shewing an increase of Rs 64, which is not fully explained. The outlay on diet and stimulants amounted to Rs. 17,530 against Rs. 20,281. This fall is due partly to the reduction in the number of patients treated, and partly to the greater cheapness of the year under review, the cost of each diet having been reduced from 2 annas 4 pies to 2 annas 2 pies. The expenditure under the head of "Miscellaneous" was Rs. 12,245 against Rs. 4,224. This large increase, amounting to Rs. 8,021, is not sufficiently explained.

21. The total expenditure at the Police Hospital was Rs. 16,124, being almost exactly the same as in the previous year. One-sixth of this amount was borne by Government, the remainder being contributed by the Calcutta and Suburban Municipalities. The cost of dieting fell from Rs. 5,435 in 1881 to Rs. 4,449 in the year under review, and the average cost of each diet was 2 annas 4 pirs against 2 annas 6 pies. None of the other items of

expenditure call for remark.

22. The invested funds of the Mayo Hospital were increased by Rs. 5,000 during the year. In the Resolution of last year, it was stated that, in view of the large sums invested from annual income, the question of revising the Government grants would be considered in the Financial Department. report on this subject has since been received from the Governors of the Mayo Hospital, and is now under the consideration of Government. The matter will be separately dealt with. The total expenditure of the hospital and its associated dispensaries amounted to Rs. 58,281, including the outlay on buildings, against Rs. 59,413 in 1881. Of this amount Government contributed Rs 37,366, or 64 per cent. of the whole. The expenditure on establishment was Rs. 31,455, or Rs. 250 in excess of that of 1881. There was a small reduction under the heads of bazar medicines and diet, and a large The Lieutenantone under that of Europe medicines and miscellaneous. Governor regrets that he is again compelled to notice the high cost of dieting patients in this hospital, which amounted to 3 annas 2 pies, the same as in 1881. Not only is this rate much higher than in any other of the (alcutta Hospitals, but it shows no reduction on the figure of the previous year, although prices were decidedly lower in 1882 than in 1881. Attention was drawn to this point in the Resolution recorded last year.

23. The income of the Howrah Hospital from private sources amounted to Rs. 22,885, of which Rs. 6,904 was paid by the Port Fund for diet of sick seamen, Rs. 2,400 contributed by the municipality, Rs. 1,446 represented interest on investments, and Rs. 12,129 payments by the East Indian Railway Company, British India Steam Navigation Company and others. It is not encouraging to notice that native subscriptions to this important charity amounted to Rs. 6 only. Government contributed Rs. 5,168 in cash, and part of the salary of the Assistant Surgeon. The total expenditure amounted to Rs. 23,634 against Rs. 28,032 in 1881. Deducting building charges, it appears that the actual amount spent on the sick was Rs. 22,723. The average cost of each diet among Europeans was 9 annas against 9 annas and 2 pies, and among natives it was I anna 10 pies against I anna and 7 pies in 1882. The per-

centage of total cost borne by Government was 21.8.

24. The Surgeon-General bears grateful testimony to the value of the reforms effected in the work of the nurses in the Medical College and General Hospitals by the ladies of the Clewer Sisterhood. Early in 1882, under arrangements made by the Committee of the Nurses' Institution, the control of the nursing arrangements passed into the hands of these ladies; and from the

date of their arrival, improvement has made rapid progress. Not only have the administrative arrangements of the hopitals benefitted by their trained skill and experience in the practical details of nursing, but the patients have testified in no uncertain manner to the advantages resulting from their constant presence and patient attention. The Lieutenant-Governor's cordial thanks are due to these ladies for the unflagging care and devotion which they have brought to the performance of their self-imposed task.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Bengal.

AGRICULTURAL PRIZES.

The following despatch is published for general information.

COLMAN MACAULAY, Secretary to the Govt. of Bengal.

No. 45, dated India Office, London, the 28th June 1888. From-The RIGHT HON'BLE THE EARL OF KIMBERLEY, Her Majesty's Secretary of State for India,

To-His Excellency the Most Hon'ble the Governor-General of India in Council.

REFERENCE to the letter of your Excellency's Government, No. 14 of the 26th December 1881, I have to acquaint you that in the recent examination for the prizes and certificates offered by the Royal Agricultural Society, the highest honours were gained by Babu Grish Chandra Basu, who holds one of the Agricultural scholarships created by the Government of Bengal.

2. At a meeting of the Society lately held under the presidency of the Duke of Richmond and Gordon, it was announced that twenty gentlemen entered their names for the examination, six of whom obtained first class certificates and the life membership of the Society. Four of these gentlemen qualified for prizes, and the highest prize of £25 was awarded to Babu Grish Chandra Basu.

Rainfall, Weather, and State and Prospects of the Orops.

Statement showing Rainfall, Weather, and State and Prospects of the Orops in the different Districts of Bengal, as reported to Government during the week ending the 4th August 1888.

	in.	District, and date return.	e of	Rainfall at Sudder Station in inches.	
BEZ	NGAL	 Western District	le.		
	T.	Burdwan. Aug	4 '88	6:63	Weather and slands (twine to bear sainful transplanting of said-
	Shari	Culma Cutwa	9 00	8:38	Weather -cool, cloudy. Owing to heavy rainfall transplanting of paddy temporarily retarded, but the planted crop has received no injury.
	1	Rancegunge		5.5	
Divin	2	Bankoora, Bishenpore Maliara	4	4:50 2:64 8:89	Weather—rainy and cloudy. Transplanting of late rice continues to be attended to, but about to be brought to a close. Some more rain is wanted in the interior of the Bishenpore sub-division. Public health good.
		Khatra		4:80	
BURDWAN	8	Rumpore Haut		10 62 5·85	Weather—cloudy. Heavy rain. Transplanting of sman crop far advanced. Partial damage from floods in some places. Prospects of crops otherwise good. General health of district satisfactory.
200	4	Midnapore, "	1 10	6-09	Weather—cloudy and rainy. Excessive rainfall impeding agricultural operations. Public health fair.
-	5	Hooghly,	4	6.25	Weather - hot and rainy. Prospects of crops good. Public health good.
	(Howrah ()	6 ,,	6·56 8·07	Weather—cloudy; heavy rain at times; perfectly fair at others. Transplanting of rice in progress. Heavy rain is said to have submerged the aman in some lands in thank Bagnan. Ass crop, sugarcane, and jute looking well.
		Central Distric	to.		
	. 6	24-Pergunnabs.,,	6 '85	5-04	Weather-seasonable. Prospects of early crops good. Transplanting of smam is
	1			1	going on briskly all over the district Public health good.
	7	Nudden,	9 19	2.60	Weather-rainy, cloudy, and cool. Prospects of standing crops fair. Manufacture of indigo continues. Fever much the same as before.
10		Meherpore	**	0.73	ente or mange constitues, rever much one one as occore.
Dry		Choondanga Ranaghat			
PREDENCY DIVE	8,	Khooine, "	4	8.09	Prequent rain. Prospects favourable. Transplanting of rice still going on.
DEN	9	Jessore, ,,	4 ,,	8.07	Public health good. Weather—hot and rainy. Harvesting of one crop has commenced. Prospects
-	1	Jhonida	**	1.21	fair. Amas is also doing well. General health good except in Bongoug
Sec.		Magura	**	4 66	aub-division, where fever is reported to prevail in some places.
		Bongong	A	5.35	
	10	Mremedubad, .,	4 20	2.14	Weather—hot and cloudy with occasional showers. Transplanting operations are still in progress. Ass and other crops are doing well, Public health generally good.
	, 11	Di apore		*****	Report not received.
14	12	Rambahye, Aug.	4 "	1.49	Moderate rain. Weather cloudier, and east and south-east wind steadier. Crop
DIVE.	1.00	Nattore	* *	1.95	doing well on the whole; but more rain is wanted soon for the amon, or the
HAR	18	Nowgong Rungporu	4	1.08	crop will be a short one. Weather—hot and cloudy with occasional slight full of rain accompanied by east
	10	Nilphumari		8.19	wind. Harvesting of aws and transplanting of amus going on. Prospects of
B		Kurigram		0	other crops good. Cholera still prevalent in Kaligunge station.
RAJSBAHYE AND COOCH	14	B gta "	4	2.17	Moderate rain daily except on 29th, so that the weather has been comparatively cool. Transplanting of amus crop going on well. Jute and our are being
O.S.	15	Pubna. 11	4 ,,	0.88	eut. General health good. Weather—cool with hight showers. Crops progressing favourably. Rivers
100	16	Darjeeling,	4 ,,	6.22	Weather - seasonable. Transplanting of native crops progressing favourably.
ВВАНУ					Indian-corn and koormi outturn to date below last year's. Cholera abated a little. Four cases of small-pox reported from Nakessurbari. Weather—seasonable. Bhadoi paddy and jute backward. Public health still
RAJ	17	Juspigores, ,,	Th 29	7.71	bad. Cholera still lingers. Mortality in jail has been very great this season.
	1	Cunch Bohur			Report not received.
		Eastern Distric	ts.		
	, 18	Ducon Aug.	4 '88	4.70	Weather-sersonable. Ass paddy and jute are being cut. Sowing of shail
	10	Maniekgunge Munshigunge		1.52 5.37	and roachis puddy going on. Prospects of crops good. In Nawabgunge prospects of aus in the low lands not so favourable.
M.		Narningungo	4	6:00 5:81	Weather-seasonable. State and prospects of winter rice and sugarcane very
D	19	Furrseapore, ,,	- 11	8 76	fair. Aus and jute being cut, with fair outturn. Public health fair,
DANCA DIVE	20	Madaripore	2 0	0.410	Weather sultry, with occasional showers. A good outture of sus crop is
any Nigh	-	300	0	1	discount atill continues in some parts of the Patuakhali sub-division.
	31	Mymeneingh.	8	1.19	Weather - cloudy sky; daily showers. Air cooler than last week. Rivers have risen considerably. Prospects improved owing to rain which has fucilitated
	1	Kishoregunge	***	8.65	transplanting. Harvesting of jute has begun Outturn of this, as also of one
		Atten	• •	1.16	not expected to be large. Outturn of the boro crop was about 10 anuas. General health fair.
		T. mriokona	••	210	

=							
	No.	District.	and de	ite d	of	Rainfall at Sudder Station is inches.	Character of the weather, state and prospects of the crops, and .
BI	ENG	AL —concld.					
E	sateri	Districts.—ce Chittagong,	oneld. Au	3. 7	7 '88	8 04	Weather—seasonable. Prospects of crops fair. Transplanting of amus continues. Prices steady. Cholera and small-pox still reported.
DIVN.	1 81	Noakholly,	89	2		6 ·80	Weather—cloudy and rainy; it rains very frequently. Minimum temperature 79° and maximum 84°. Ass paddy is being respect generally. Transplanting of amon paddy continues.
CHITTAGONG	84	Tipperab, Brahmu Chandpo		2		6·84 1·31 4·95	Weather—seasonable. State and prospects of crops favourable. Public health generally good.
CBITT	21			y 31	1	2:45	Continued drizzling rain throughout the week. Jum paddy doing well. Cotton or op will be very short. Transplanting of une paddy progressing. Sugaroane doing well.
	1	Hill Tipperal	Aug.	1	9*	1.14	Weather—last portion of the week rainy. More rain wanted. Aman paddy still being transplanted. Salys paddy, til and sugarcane doing well. Public health good.
80	U A P						oraniem Room
BE	HAI	S					
	26	Patna, Barh Bebar	to	4	80	3·06 7·61 11·75	Wenther—hot. Constant rain has affected the bhadoi crops to some extent. Rice seedlings have also suffered on this account. Cholera prevailing in Barb, Beliar and Sudder.
	27	Gya.	99	4	42	7.72	Weather—cool and cloudy with frequent showers. Transplanting of rice crop is being pushed forward. All crops on the ground are looking well. Cholera less prevalent, but cattle-pox reported from several villages.
	88	Shahabad, Buzar		4	**	3.34	Weather—sensonable. Rainfall frequent and in plentiful torrents. Transplanting of rice commenced. Cholera in Bhaboonh abating
DITE.		Bhaboosh				4.88	
	29	Durbhungs,	9.0	4	9 0		Weather—cloudy, showery and cool. All prospects good. Prices stationary.
PATTE	80	Mozufferpore, Hajeepore Seetamur	0	4	40.0	4·07- 6·01 8·70	Weather—seasonable. Copious rainfall of the week has brought forward the bhadoi orop, and has facilitated transplanting of the aghasi crop. Cholera cases are frequent in the interior of the district
	81	Sarun,	11	4	80	4 69	Weather-cloudy with frequent showers. Sufficient rain general throughout
		Sewan Gopalgun	ige			3·24 7·87	district. Prospects of bhadoi crops excellent. A spell of fair weather will do immense good. Transplanting of paddy in low lands going on. Manufacture of indigo in progress. A few cases of cholera and small-pex reported from Sewan and Gopalguage sub-divisions, otherwise public health good.
1	32	Chumperun					Report not received,
	88	Monghyr Begusera	Aug.	4	'88	435	Weather—cool and rainy. Heavy rain reported to have done some injury to bhadoi crops, but it is favourable for the transplanting of rice. Public health
B DIVE	84	Bhaguipore,	89	4	**		generally good. Weather—rainy throughout district. Prospects of autumn crops very good. Transplanting of aghani paddy going on.
POR	35	Purneah, Kissongur	nge	4	99	3.83	Weather-normal. Bhadoi crops good. More rain wanted for transplanting rice.
BEAGULPOR	86	Arrareah Maldab,	90	4	20	1.80	Weather-cloudy, with light showers of rain. Paddy and other standing crop are doing well. Common rice selling at from 16 to 18 seers per rupec.
200	87	Southal Pergh	a. ,,	4	9.0		General health good. Weather—rainy The rain of the past week will suffice for almost all the trans-
		Dooghur Eajmehal				6:37	planting that remains to be done. The Indian-corn may suffer a little, but the loss will be fully made up by the improved prospects of the rice harvest.
		Jaintara Pakour				8·06 2·46	tt utent.
		Godda			***	4:1	u 1994 i 1994
OR	884						
pi (38	Cuttack					Report not received.
ORISSA DIVE	89	Pooree, Khoorda	**	8	0.0	4·46 2·25	Veather—cloudy, with moderate rain. Transplanting and weeding going on. In some places biali is in ear. Miscellaneous crops doing well. Pricess of tood.
ORT	40	Balasore,	99	3	00	1.76	grains stationary. Public health good. Veather—seasonable. Transplanting of paddy going on vigorously. Standing crops doing well. Public health good.
CHO	TA Sout	NAGPORE.	er				
		Agency.	Aug.	8	'8 6	4-96 V	Veather—cloudy and rainy. Sufficient rain throughout the district. Transplanting operations commenced. Prospects of crops favourable. General health-
	43	Lohardugga,	3.9	4	99	6-23 V	good. Yenther rainy. A break would do good to standing crops, Transplanting of paddy progressing actively. Cholera still prevalent in Palamow. Prices
	48	Singbhoom,	V g	3	91	12·46 V	stiffer in Itanchi and Silli, ery heavy rain during the week. All crops doing well. General health fairl
	64	Manbhoom, Govindpor	*1	4 .		8-86 V	good. Venther—rainy and close. Prospects of all crops excellent. Public healt generally good. Outbreak of small-pox at Topchanchi abating.
"							p. V

Published for general information.

CALCUTTA, STATISTICAL DEPT.,

The 7th August 1888.

COLMAN MACAULAY,

Secy. to the Govt. of Benga.

e following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of May 1883.

IMPORTS INTO CALCUTTA.

				FOO	D-GRAII	NB.			Finnous	PRODUCTS.	0110	REPS.	1			800	OAR.
Whence traports	ıd.	Rica	AND PA	DDT.	Wheat.	Gram and	Other food-	Total.	Jute, raw.	Gunny-	Linsond.	Mustard-	Tea, Indian.	Cotton,	Rilk,	Roffmod	Unra
	ä	Rice.	Paddy.	Total (in rice).		pulses,	grains.	30122		begg.		seed.				i donimod	fined.
HENGAL.		Mdo.	Mds.	Mdn.	Mdo.	Mdn.	Mds.	Mds.	Mda.	No.	Mds.	Mds.	Mdn.	Mds.	Mds.	Mda.	Mdu.
swan. Shinom Inpore Shinom Inpore Shily Secumabs Idea Idea	**** *** *** *** *** *** *** *** *** *	40,793 8.32 1,83,834 80,047 2,07,213 2,486 4,130 7,138 11,640	10,785 62,470 9,1804 83,143 6,850 3,275	47,446 823 8.16,619 51,882 8,27,920 9,474 9,185 11,649 16,747	2,994 18,135 888 39,340 867 6,990 227 388	6,141 850 4,055 8,859 1,415 1090 24,143 5,570 3,258	1,060 23 1,006 1,468 41	56,729 1,385 2,20,673 60,782 2,30,278 10,374 34,715 12,511 11,131 3,545 10,767 653 14,150 2,04,734 0,06 4,00 3,936 4,00 3,936	709 100 32,596 33,905 2,400 828 4,911 32,482 2,480 2,03,204 11,239 2,49,539 1,17,608 6,211	\$390 420 642,000 867,030 4,170 	9, 257 (31 3,705 3,574 15,848 (99) 10,478 536 3,941 1,793 2,833 1,892 10,258	201 5.437 2,147 150 1.251 314 1,182 792	273 	16 37 1,074 2,1461 856 63 63 617 517 517 517 517 517 517 517 517 517 5	22 878 600 132 406 834 834	3,045 31,487 3,959 166	905
anising an	**	10,957	******	10,957	81,034	1,24,368	4,758	10,857	7,34,220	2,286,036	67,591	15,949	11,808	12,977	1,992	33,696	1,23,65
Manan.	101	7,47,714	1,07,905	8,13,135	021002	2,27,000		20,20,000									0,00,00
inbad inferpore	**** *** *** *** *** *** *** ***	27 6 15 26	000000	4	1,05,356 24,073 1,36,123 6,459 12 24,831 31,099 2,329 23,101	35,420 2,594 1,101 35,420 2,524 57 2,940 11,243	7,292 8,997 396	1,67,081 24,573 1,40,715 8,997 6,959 12 12 67,296 36,254 67 8,996 34,314	965		1,52,666 27,070 15,534 3,584 28,282 27,897 31,826 360 5,711	29,104 2,463 5,971 2,854 5,929 10,664 1,259		3	13	6,743 2,975 1,038	81
Potal of Behar	***	70		70	3,51,553	1,04,451	18,092	4,75,394	1.237	*****	2,83,427	73,083		3	43	10,751	1,91
ORISSA. DOCK TOTAL OF ORISSA UHOTA NAGPOR		7,586 1,00,208 1,16,768	4,040	7,580 1,11,788 1,19,813	290 625	******		7,970 1,12,559 1,80,428	1,953		• • • • • • • • • • • • • • • • • • • •			******	000.10		000.00
aribagh		40000	*****	*****	*****	2,000	*****	2,686	*****		1,870	812	396	404120	******	240.48	113
d Total of supp in the Provingerthe Licuteum derthe Licuteum dermor of Bong	116-	8,64,572	1,11,945	9,84,588	4,34,052	8,31,485	23,780	16,23,825	7,37,419	2,284,036	3,51,888	90,443	12,204	12,990	2,036	40,647	1,28,07
in Western Provide Ordhand Provinces of Control of Cont	18.	13,664	970000 00000 00000 00000 00000 00000	12,664 2,732 5	16,48,137	25,968 3,663 270 1,550	80 &	16,74,906 37,021 270 15,214 6,722 6	308	150	863 1,12,971 50,503	0,809 3,28,423 1,50,703	6,662 303 610	65 44,592 1,412 11,056 3,103 15	251	1,225	43
d Total of a	1888	8,80,973 9,46,365	1,11,945	0,80,939	21,13,567 10,01,121	2,64,923 8,20,718	24.054 15,102	33,55,963 23,77,345	7,38,927	2,287,276† 1,501,679†	5,15,728 5,03,707	5,50,045	17,359	72,020	2,233	53,200	1,25,0

[•] One maund of paddy is equivalent to 25 seers of rice.

† Exclusive of bags obtained by local manufacture.

The Sea-borne Trade of Calcutta in these Staples during the month of May 1883, was as follows: -

				des - 1 Territoria										-	
				1									+		
11,092	*****	1,80,017 11,099 38,055 11,747	207 241 186	6,409 203 1,941 1,120	5	1,50,986 17,086 85,323 15,920 1,152 160	7,805	1,970,900 345,450 70,142 200,300 777,500 73,900 86,000	444.00 104.00	14	1 122 7 18	170	300 14 6 34	13,751 12 70 614 720	783
2,06,818	89	1,00,637	798	9,898	8	2,17,448	8,023	3,503,392	*****	226	143	174	204	10,175	74
-															
1,88,893 5,65,278	745 890			0,209 001,82	5,033	12,81,364 5,163,352	5,81,360	72,240 4,756,672	3,36,361 05,130	4,59,595 13,561	3,200	44,990	184 972	84,168	27,94
7 87,171	1,146	7,37,880	14,02,420	20,408	5,033	81, 11,710	6,76,702	4,824,012	3,91,517	4,73,556	3, 120	U L, UCS	1,128	31,584	-27,21
	1,198	11,44,722 8,25,477		39,210 83,975	3,018	23,149,196	6,80,726	0,532,004	3,91,517 3,20,023	4.78,78± 2,67,623	3,372 5,644	68,842			
	11,042 85,050 11,747 26 	11,002 85,050 11,747 265 2,06,818 89 1,88,893 745 5,05,278 899 7,87,171 1,144	11,092 11,093 38,065 11,747 283 28,06,818 29 2,08,837 28,05,278 399 5,53,227 7.87,171 1,146 7,37,888 0,43,1944 1,183 0,44,732	11,092 11,093 407 85,055 11,747 241 285 11,747 245 285 11,747 241 286 11,747 241 287 186 2,06,818 89 9,08,687 798 1,88,898 785 1,84,558 10,00,797 5,65,278 899 5,55,227 3,11,023 7,77,171 1,146 7,37,885 14,02,420 9,43,1944 1,183 0,44,732 14,03,232	1,00,000 11,000 607 6,400 11,747	11,042	11,093	11,003	1,83,805	T1,082	11,087	1	11,093	Ti,093	11,093

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic imported into Calcutta during the month of May 1883.

IMPORTS INTO CALCUTTA.

	1	1	FOOD-GRA	ING.		PIBROUS!	PRODUCTS.	OIL	ERDs.	Tos.			800	FAR.
REPRESENTATION OF ROUTES.	Rice.	Paddy.	Wheat.	Gram and pulage.	Other food- grains.	Jute,	Gunny-	Linseed.	Mustard-	Indian.	Cotton,	Silk,	Round.	U
9	Mds.	Mds.	Mda	Mdu.	Mds.	Mds.	No.	Mdn.	Mds.	Mds.	Mdn.	Mds.	Mds,	M
renortry boats	36,230 20,100 1,12,933 1,91,671	9,184 2,540	87,430 20,86,228 19,705 1,342 825	96,693 1,35 312 24,240 1,134 3,540	1,182 22,434 988	1,40,570 2,65,801 2,90,883 80,754 1,400	779,990 103,770 1,150	84,193 861 4,49,816 80,287 1,066	10,844 0,809 5,62,000 6,990	2,830 1,382 12,021	2,750 661 45,721 8,197 1,147 16,450	801 7 767 467	5,018 11,134 32,644 2,440	6
rand Total of Imports 1983	8,80,973 9,48,353	1,11,945	21,15,547	2,64,923	24,554	7,88,227	2,287,276	5,15,738 5,02,707	5,86,648	17,359	72,026	2,203	63,380 R6,633	1,0

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported inland for Calcutta during the month of May 1883.

EXPORTS FROM CALCUTTA.

		Cotton piece	good».	Cotton	twint.		0	1	Cotton pie	ce-goods-	Cotto	twist.		
Whither expo	rted.	European.	ludimi.	European.	Indian.	Salt.	Gamy.	Whither exported.	Euro-	Indian.	Buro- poun.	Indian.	Sult.	Gunny-t
Bangal.		Ra.	Ra.	Mds.	Mds.	Mds.	No.	CHOTA NAGPORE. Hearribagh Manbhoom	Ra. 97,980 96,780	Rs.	Mds.	Mda. 98 1,677	Mds 7,690 10,863	N 6
Burdwan Bony bloom		3.4H.728	1,440	458	1,878	34.216	48,670 9,310	Total of Chota Nagpore	1,94,700		40	1,575	18,056	21,
Mainteneroro	***	86,667 3,12,483	32,683	720 013 880	39	851 249 8,904	15,465 25,590 18,086	Grand total of supplies into						
Nutten	***	4,50,071 2,300	*****	1.024	*****	21,324 4,195	21,680	Lieutenant-Governor of	99,69,890	83,026	13,859	0,060	4,84,748	1,205,
Khulna lessore Boorshedahad		1,69,493	6,810	48	67	6,378	570 5,860	OTHER PROVINCES.						
Dinacepore Enjahanye	**	1,25,1.0	.,	439 381 813	******	8,650 13,100 20,350	1,234 870 30	Assam Provinces	3,33,458	*****	961	*****	8,004	
Soura	0.00	1,17,040 3,20,160		182	******	10,400 81,825	3,000	and Oudh	30,43,725	26,730	3,457	50 0 73	80,615	1,66: 3
Paine Pariceling alpagaros	***	2,04,600	1	0 : 7	10	12,050	10.490	Central Provinces Rajpootana States	97,675 65,140	270	194	******	100000	3625 31
herea hereadpore	***	5,14.270 3,04.590 50,359	14,240	2,009		17.950 19.497 7.095	10,470	Madras Pondicherry	9,150 40,725	75	784 89	478		2,31
is measing	18.4	822		16	*****	6,000 350	499'**	British Burmah Other piaces	1,98,918	1,464 8,803	805 49	2,750 2,619	******	3) 6,640 t
Topernh Torthwork Nonkholly	**	1,11,128 6,850	18	267	101111	1,200	300		1,58,00,601	1,17,978	20,050	12,327	5,13,161	31,900.0
Total of House	al [44,86,608	09,246	¥,060	2,160	2,70,406	169,819	Exports in May \ 1882	1,17,27,651	64,509	19,770	8,359	7,17,000	9,004,4
BREAR.			1					The Sea-borne Trade of O	aloutta in	thosa Bi	lupiss s	during t	he mon	th of Na
Blue		14,36,025 3,30,409	6,650	143	91	81,974	897,285 86,155	imposted into Calcutta -	Ra.*	Ra.	Mds.	Mds.	Mds.	No.
innimbad U-7111'erfilif@	***	1,00,500	8,460	5	184	26,941	190,105 12,635 39,630	Prom Poreign Ports-	200.	200.	mrom.	MLCLO.	and the same	216
inthinunan Jumparun		8,18,876 4,72,726	1,000	24	280	10.421 2.467 10.221	100,720	Other Foreign ports	90,77,832 25,654	*****	14,487	100100	5,03,784 1,00,476	
Bengulpes Bungulpeso Purusah	#*·	3,73.575 4,36,428	5 80 630	187	313	17.711 2.323	\$0,160 £10 1,100	Total of Foreign trade	91,00,630		14,019		6,70,15%	
Malush Southsi Pogrum		7,14,375	*****	116	803	4,650	86,420							
Total of Beli		32,40,625	23,760	431	2,130	1,96,290	937,735	From Indian Ports— Bombay Madras	12,921	84,440	*****	9,128		1
()0100								British Burmah Other Indian ports	6,860	600		*** *** *** ***	1,984	-
Onino.	***	944111	,	4,289	212	~ e < ()	2,000	Total of Interportal trade	26,538	85,380	1	0,121	13,162	
Balanure	***	80,417	*****	4,239	912		73,600	Grand Total of [1883 Luports in May [1882	91,33,504	85.300	14 1920	9,131	0,83,300	

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported Culcutta during the month of May 1883.

						1	COTTON PIEC	R-GOODS.	COTTON T			
SPECIFICAT							Buroposs.	Indian.	European.	Indian.	Bait.	Gunn
y country brets river atentions tail { heat Indian kustern kennal year	100 160 800 180 180		001	***	000 000 000 000	***	Ma. 1,5-,510 5,30, N40 1,13,76,775 20,65,520 3,16,073 4,58,093	10. 31,656 02,660 14,760 24,103 5,860	3f cla. 8600 1,4400 6,624 6,846 1,447 6,432	0,107 10 02 6,065	M.da. 91,1657 0,250 8,759,415 1,24,513 6,236	\$4.85
Grand Total of	Bayort	12-M	ву		1885	,	1,17,27,681	1,17,078 64,509	19,770	12,327 6,350	5,13,361 7,17,100	11,000 Øj050

* As per tariff declaration value.

The 4th August 1883.

Secy. to the Goot. of Bent

STATEMENT SHOWING THE STOCK OF RICE IN AND AROUND CALCUTTA

					Proce		IN HAND AS COMPIÉSD ON-						
NAMES OF MARTS.	1st week of August 1882.	1st week of Sept. 1892.	Int week of O-c. 1882.	1st week of Nov. 1892.	1st week of Dec. 1882.	lat week of Jan. 1883.	1st week of Feb. 1883.	of March 1893	1st week of April 1883.	ist week of May 1983.	ist week of June 1883.	ist week of July 1883.	1st week of August 1883.
	Mda	M'da.	Mds.	Mds.	Mds.	Mds.	A P	Mds.	Mds	Mds.	Mda.	Mide	Mar
Ballaghatta	3,91,000	4,17,560	4,21,000	2.69,000	2,69,690	3,85,300	8,50,584	7.40,000	R, \$5,000	6.69.000	£.50.000	1	-
Ooliadanga	71,780	72,780	65,300	65,500	47.000	67,100	48, 250	006'69	1,06,400	1.07.500	1,90 200		0,11,000
Chitpore, Golabaree, Coomer- tooly, Hatkhou, and Culpy Ghät.	7,03,566	7,24,700	7,05,506	6,69,609	6,55,200	6,42,050	6,11,440	7,22,300	9,14,200	7.92,900	9,50,100	9.59,400	7,96,70
Pathurianhatta, Posta, and	21,500	\$3,540	28,000	10,500	16,500	21,780	13,200	19,500	18,900	8,600	15,500	15,400	10,500
Pollygunge, Chillah. Kidderpore,	1,39,500	1,54,200	1,36,200	1,96,200	1,04,890	1,17,800	1,00,000	1,11,600	1,20,500	1,57,300	1,51,100	1,11,200	1,02,650
11 Finor Hasars (ortimated)	2,60,000	2,40,000	2,40,000	2,40,000	3,40,000	2,40,000	2,40,000	2,40,000	2, 40,000	2, 40,000	2.44.000	0.40.000	4
Other retail shops, 3,139 in number (estimated).	2,54,000	3,50,000	2,50,000	3,50,700	2,66,000	2,50,000	2,50,000	\$,50,000	\$,50,000	8,50,000	8,50,000	8,86,000	2,56,000
Keidyshatty, Howsbeunes, Ebuddressur, and Chauder- nagore.	21,125	15,875	189'08	17,181	9,750	7,994	6,013	6,978	12,625	20,50	10,387	11,956	#9°#
Total	18,41,926	19,63,675	19,64,531	16,07,961	16,14,450	17,41,946	18,19,812	21,89,175	24,06,825	22,00,525	23,P1,387	22,79,636	\$1,00,946
of Railway premises on both sides of the river. (By Port Commission on both mission on both m	Augus 82.) (Srd to 5th Augus 82.) (Srd to 5th Augus 82.) (Srd to 5th Augus 82.)	B.222 82.1 Sept. 82.1 Sept. 84.065 (18t t. 3:4 60,730 (18t to.ited Sout. 1862.)	(en 5th Oct 82) 33,254 (End to 8th Oct, 62.) 35,489 (End to 6th Oct, 62.) 35,489 (End to 6th Oct.) Cell (end to 6th Oct.)	5,402 ('yn 4th Nov 82.) 22,396 (left to 3rd Nov. 82.) 24,083 (1st to 3rd Nov. 82.)	4, 108 (on 2nd Dec. 82.) 37,123 (186 to 3nd Dec. 82.) 18,937 (184 to 3nd	6.672 fon frd Jan. 8.1) (1st to Nrd Jan. 83.) 1,22,775 (1st to 3rd fact to 3rd	789 (on \$74 Peb. 83.) 21.802 (lat to 3rd Feb. 83.) 1.18,534 (lat to 3rd Feb. 83.)	Saye (on Say March 83.) (let to 3rd March 83.) (let to 3rd (let to 3rd (let to 3rd	3,736 fon 4th April 83, 35,206 (2nd to 4th April 83,) 75,238	I ME	(or 4th June 43.) 24.192 (let to 3rd June 43.) (let to 1rd (jet to 1rd	(on 3-1 July 83.) 94,784 (1-4 to 5rd July 83.) (151 to 83.97	(on 4th August 52.) August 52.) (2nd to 4th August 52.) 31.655
Grand Tetal of Stocks	F	\$0,26,450	19,40,215	16,28,867	16,74,908	19,06,991	19,58,918	23,33,134	26,14,669	22,55,297	June 83.)	July 83).	Å UKTUSE 55.)
Probable stock available for an expertation by sea.	98 lakbs.	94 lakhs.	9 lakhs.	6 lakhs.	64 lakhs.	83 lakhs.	9 lakhs.	12 minus	15 jakha.	12 lakhs.	14 lakha,	12} lakhs.	11 lakhs.

STATISTICAL DEPARTMENT, The 6th August 1883.

Secy. to the Gost, of Bengal, COLMAN MACAULAY,

PRICES CURRENT of Food-grains, Firewood, and Salt in the

RETAIL SALE : - QUANTITIES PER RUPER BY

				W m	BAT	0			BABLE	r .		Ric	ew, n	18.07	SOR	T		Ric)B, 0	OM	KOW.	Bus	MEOO, E	LLLUT- AJRA.	Стол	LUM, J	LET-
	DISTRICT	rs.			retarn.		3		returb.	return			200		return				200		retara		refers.	reture		retarn	reture
Wansber,			Present return.		preceding	1	of last year.	recent return.	t preceding	Corresponding of last year.		Present return.		Next proceding retain	Corresponding	inst year.		resent retarn		Newspaper of the	Corresponding	rment return.	1 preceding retern	responding last year.	Present rotars.	t proteding	Corresponding
Non			Pre		Nort	1 3	9	Pres	10 Mg	Sol		Pre	1	14 0 2,	Corn	9		Pre	1		Ser	Qu E	Nest	Poor of	P	Meart	200
	BENGAL.																										
W	estern Distric	rts.	• (3)	Lind	435	104	474	104 (104	In Alba	100 (3)	Tod	4.10-	. 24	190.	66	4 904 1		ı Ma	t nit	70.	66 45	h 14 s	h. _[n. Ch	10 4%	4 (1)	0 41	0.00
			A.	1		1	Cn.	, Ou.	10. 0	. On		VB.		011.	1,3 .	Ou.	691	00.					. 01		. 02	. On	
8	Rurdwan	000	16 8	110	0	14	0	20 0	39 0	80 0	17	4	17	4	24	0	22	12	33	8	26		454		***	***	104
B	Bankoora	994	14 12	14	12	13	8	16 0	16 0	16 0	19	0	19	0	22	8	25	0	25	0	29		***	+0	101	104	
3	Beerbhoom		16 C	18	19	13	4	400	***	800	16	8	16	8	19	12	21	0	31	0	94 (ad-a	001	loov	100	***
	Midnapore		14 1	14	0	14	0	17 0	17 0	***	18	0	18	0	21	0	22	0	22	0	26 8		***	**	100		100
8	Hooghly	001	18 E	1 15	В	18	0		100	***	9	0	10	0	10	0	18	0	18	8	19		***	***	101		
	ripogusy	***															-						1	-		100	101
	Howrah	-44	18 4	6 13	6	13	4	***	***	100	13	8	18	8	16	0	17	8	17	8	19 (***	60°	000	000	000
	Calcutta	***	114	9 14	6	118	6	18 13	,19 6	91 6	[10	13	10	13	10	0	16	0	16	0	90	90 (0 20 0		800	***	
3	34-Pergunua	ad	18	6 1	5	11	19	16 0	17 8	20 0	8	0	B	0	9	0	16	0	16	0	:6			***	000		20
7	9733		G 14	8 1	8	14	8		SIII 0	:6 0	15	4	15	4	16	1.8	17	4	17	4	90 (0	
	Nudden	00.0	H			1.0		004		-0 0	1.0		10			20	.,	_					100	901	***	000	00
В	Khoolna				***		***	101		100	16	0	16	0	16	0	22	0	24	0	22 (***	***	***	100	100
0	Juncoro	0.04	18	6 1	4 8	14	0	000		***	16	0	16	0	17	0	21	4	33	12	23		**	984	800	***	-
	,		J 15	0 1							18	0	15	0	16	0	20	0	19	0	94					18.4	1.4
0	Moorshedabe	BQ	K	1	5 0	18	0	100	400		160	U	10	U	10	V			1				***	001	960	001	984
1	Dinagoporo	00-	16	0 11	3 14	11	0	17 8	***	17 0	16	12	16	0	16	0	19	0	18	18	19	3	***	***	094	004	***
	Rajababye		16 8	3 17	4	13	8 to	300	0 80 0	66 0	13	to	15	0	16			to	1 1		19 60	15	000	-	000	-	
			м		(15)			1	16 0		8	19		(18		16		21 ()					
B	Rungpore	944	18 4	5 12	5	16	0	***	***	8.04	18	5	13	6	:0	0	30	0	20	0	19 (000	001	000	000	***
	Bogra	804	15 0	18	12	16	8	***		***	12	0	13	12	15	12	91	0	91	0	96 (000	***	000	100	900
3	Pubna	000	N 18 19	110	12	17	0		***		8	0	8	0	10	0	19	8	10	8	96 4		900		900		
1	, done	***	0			1			***													•••	***	-	***	*****	1
3	Darjouling	000	8 (0 1	0	8	0	8 0	8 0	8 0	4	0	4	0	8	0	13	0	8	0	18 (***	***	000	040	111	-
7	Julpigores	***	P 10	110	0	9	0	20 0	90 0	90 0	12	6	12	8	14	0	17	0	16	0	18 (000		994	-04	
-	aptern I letri	ets.	1	1		1		1	l	,			t							1		1		1			1
			10 Q	100	4	10	JE.	98 0	19 0	40 0	9.40	p		10	90	0	90	0	10	0	29 4	100					1
	Dacta	***	18 6	12		10	0	40 0	10 0	20 0	10	d	10	2	ZV	U	2.70	0	A.W	V	ow t	74. 8		***		10-0	000
	Furreedpere	***	20 0	90	0	22	0	80 0	30 0	35 0	16	0 1	16	0	22	0	18	0	18	0	26 0	000	440	101	000	000	100
	Hackergunge	001	B		100			800	800	100	19	0	19	0	20	0	21	0	91	0	24 0	000		- the	>00	700	100
,			T																								
	Mymonomyth	***	11 0	11	0	10	8	001	***	001	13	5	15	8	22	0	19	0	18	8	10 0	100	***	60-	1000	***	#84

A le the sub-divisions retail prices of sait are as follow: —Cuine 134 seers, Cutwa 114 seers, and Rancegunge 134 seers.

B thetail prices of sait at Heipere 11 seers, at Onda 15 seers, at Sinamukai 12 siers, and at Bisheupere, Indas, and Kutulpere 13 ceers.

C in the interior retail price of sait 144 seers.

D in thattal retail price of sait 144 seers.

E is the sub-divisions retail prices of sait are as follow: —Berampore 13 seers and Johannbad 134 seers.

F in the sub-divisions retail prices of sait are as follow: —Beramet and Bussimust 13 seers, Dismond Harbour 104 seers, Barrackpore 134 seers, and Dum-Dum 12 seers.

G is the sub-divisions retail prices of sait are as follow: —Koushten 124 seers, Meliurpore 11 seers, Choosdangs 15 seers, and Runaghat 12 seers.

H is batchira and regirbat retail prices of sait are as follow: —Jhonida, Magura and Narail 12 seers, and Bonzong 13 seers.

In the sub-divisions retail prices of sait are as follow: —Laibugh 11 seers, sungapore 20 seers, and Kandi 214 seers.

WHOLESALE PRICES
PER MACEND OF
40 ARERA.

Districts of Bengal for the Fortnight ending 31st July 1883.

THE SERB OF SC TOLASS.

	RAG	IND MY	URWA	Mass	on I	EDIAN-			Ga	AM	l.			J	235.007	70	03.		-		B	12/8.	,			-	SAL	-	_	
		return.	reform		retern.	retorn	-			return.	reture.	•			Paknes	- Barrie	return		-			return.	Politican		-		retarn.	Petura		DISTRICTS.
	Present return.	Next preceding	Corresponding of last year.	Present roturn.	Next preceding	Corresponding of last year.	President and	reent return.		MART proceding return	Carrentonding	of last year.	Present refron	THE PARTY OF THE P	Next preceding		Corresponding	of last year.		Present return.		Next preseding return		of last year.	Present raturn.		Naxt preceding	Corresponding	of last year.	1
																														BENGAL.
),a+ .	S. Ch.	B. Ch.	a, Ch	M Ch	H. Ob	M. Cb	125.	Ch.	176.	Cla.	18.	UЬ.	19.	Ch	18	CL	135.	Ch	CI	a. 8	8.	Ch	. 3.	Ch	R. 4		R. 4	. R.	A	
	801		000	•••	***		20	4	21	8	30	0	120	0	120	(120	0	12	10	19	4	13	8	3-0-	3 3	8-0-8	3	18	Burdwan.
	000	***	****	80 0	82 0	89 0	17	19	17	19	18	0	580	0	260	0	240	0	12	0	12	0	19	0	8-3-	3 8	8-8-6	8	8	Bankoora.
	***	•••	601	***	104	***	81	0	21	8	80	0	100	0	160	0	180	0	10	8	10	0	11	8	3-8-5	8-	12-6	8	7	Beerbhoom.
	801	•••	***	***	400		16	0	16	0	17	0	165	0	155	0	160	0	12	0	19	8	13	8	9 14	8	14	2	13	Midnapora,
	601	•••	***	***	***	***	16	0	17	0	30	0	190	0	120	0	120	0	13	9	18	9	13	9	2 14	2	14	2	14	Hooghly.
	600	000	0.04	***	***	***	16	6	16	4	19	8	80	0	80	0	80	0	13	8	18	0	13	0	2 14	8	0	8	0	Howenh.
	w00	1 000		21 6	26 10		17	19	18	13	21	5	90	0	90	0	90	0	14	0	14	0	14	9	3 12	2	12	2	10	Calcutta.
	* #40		000	***	17 8	22 0	17	8	17	8	17	8	80	0	80	0	90	0	13	5	18	8	18	5	9 14	2	14	8	0	26-Pergunnane. 127
	900	200	600	001	001	***	20	0	90	0	99 1	15	10	•	***				11	104	11	101	11	101	3 0	3	0	3	0	Nuddea.
	801	•••			***	***	16	0	16		18	U	180	0	180	0	160	0	10	8	10	8	11	0	8 4	8	4	8	2	Khoolna,
ä	000	041	***	400	000	***	18	0	19	12	16	0	190	0	120	ı	120	0	11	0	11	0	19	8	3 2	8	3	8	8	Janua .
Ù	900	401	004	001	***	600	28	0	28	41	43	0	190	C	190	0	120	0	11	0	10	0	12	8	3 8	3	6		.	Moorshedabad.
Н	1-00	001	04+	4**		000	19	0	117	7	80	0	160	0	160	0	180	0	11	8	11	6	18	8	8 7	8	7	**		Dinagapore.
٦	800	000	661	400	000		21	0	20	10	19 to 21	U	240	0	240	Ġ	940	0	18	0	12	0	12	0	3-2-6	3-	2-6	000		Rajshahye
Ħ	891	004	600	00.0	801		17	8	17	8	15	0	110	0	110	0	180	0	11	14	11	14	11	8	8-5-3	3	6	8-6-	-8	Rungpore,
	901	440		***		***	16	8	18	12	16 1	3	71	6	60	L	67	8	18	0	10	8	10	8	8 2	8	8	3-6	-4	Bogra.
8	001		201	***	***	030	18	4	18	6	20	0	200	0	200	U	900	0	19	0	18	0	13	0	8 4	8	4	8-8	1-6	Pubsa.
	10 o	9 0	8 0	18 0	18 0	22 0	8	0	8	0	9	0	128	0	128	0	160	0	8	0	8	0	8	0	4 8	4	8	4	8	Darjeeling
	804	001	***	***	*65	•••	16	0	16	0	16	0	128	0	128	U	128	0	11	8	11	0	11	0	8 6	3	6	8	4	Julumon on.
								-																						Eastern District.
	000		000	000	-	***	17	4	18	8	90	0	110	0	120	0	106	8	19	4	19	0	12	6	8 4	3	6	8	8	Undos.
	904		000	001	***	100	16	0	16	0	12	0	120	0	120	0	000		11	8	11	8	11	0	3 7	8	7	9-13	9	Furrentpore.

001

0.04

15 6 15 8 16 0

Retail price of salt at Raigunge 10; seers and Nitpore 12 seers.

In the sub-divisions retail price of salt at are as follow:—Gaibands 10 seers, and Nilphamari and Kuragram 12 seers.

In the sub-divisions retail price of salt 13; seers.

Retail price of salt at Kuracong and Sillagoree 8 seers.

Retail price of salt at Kuracong and Sillagoree 8 seers.

In the sub-divisions retail prices of salt 10 seers.

In the sub-divisions retail prices of salt are as follow:—Manickgunge 12 seers, Narsingunge 13 seers.

In the sub-divisions retail prices of salt are as follow:—Continue 1-2 seers, Madaripore 12 seers, Binangs 11 seers, and Gopalgunge 12\$ seers.

In the sub-divisions retail prices of salt are as follow:—Pa unktail 9\(\frac{1}{2}\) seers, Perosepore 11 seers, and Bhola 8 seers.

In the sub-divisions retail prices of salt are as follow:—Pa unktail 9\(\frac{1}{2}\) seers, Perosepore 11 seers, and Bhola 8 seers,

In the sub-divisions retail prices of salt are as follow:—Existoregunge 10\(\frac{1}{2}\) seers, Atten 12 seers, Janualpore 11 seers, and Netrokona 13\(\frac{1}{14}\) seers.

18 0 18 0 18 0 120 0 120 0 120 0 130 0 13 0 10 9 2 11 3 11 8 11 Bacaerquage

18 6 19 8 19 8

Mymousingho

PRICES-CURRENT of Food-grains, Firewood, and Salt in the

																			RE	LAI	LE	SAL	E :	-QUA	NTITI	188 P.I	SIL RETT	PKK B	THE
`				W	23/	T.			В	ARLT	r.	F	res.	, 98	18T (10B1	r.	8	tioi	B. 0	D M S	tos.			ren Mi			AT MIL	
Number.	DISTRIC	rs.	Post		Next preceding retars.		of last year.	Document columns		Next preceding return.	Corresponding return		Present return.		Next preceding fetting.	Corresponding return	of last year.		Present reture.		Negt pressuing results	Corresponding return	of last year.	Pressut return.	Next preceding return.	Corresponding return of last year.	Prepar retarns	Next preseding return.	Corresponding return of last year.
Ba	eloru Biotrio	da.—				1. 8.	t'h	. B. (3h. 1	8. CL	. 8. C	h (8.	Ch	. 8	Ch	. 8.	Сь	. 8.	Ch	8.	Oh.	. 8.	Сь.	8. Съ	8. Ch	.,A. (1b	.1 ⁹⁴ , Cib	.14. Oh.	.,5, Cha
23	Chittegong	801	10	0 1	S (***	***	14		13						90		25	0	001	***	104	***	***	***
28	Noakbolly	644	7		***		•••	40			801	20	0	20	0	26	0	29	0	22	0	28	0	***	***	***	000	191	100
94	Tipperah	000			1 (11	8	***		000	000	18	12	17	0	29	8	22	8	22	19	28	0	000	99.0	001	***	***	100
25	Chittagong Tracta.	Hill	***		000		009	**	•	***	000	19	6	19	4	18	5	13	4	13	4	17	19	***	***	***	***	444	000
	Hill Tippera	h	10	0 1	0 (11	0	•••		999		10	0	17	0	22	0	20	0	22	0	29	0	001	900	***	***		100
	BEHAR.		,			,		,	1		1	1		la e		100						-	•		1	1	1	1	1
25	Patne	80 -			7 (18	8	29 1	3 3	98 0	34 0	16	- fr	16	0	17.78	0	18	0	18		39	U	***	***	**	000	***	100
27	Gyo	491	1 2	8 1		1		34	0	6 0	29 0		0	12	0	19	8	15	0	15	0	18	8	•••	000	681		100	
10	Shahabad .	{	. 20	0 1	to		to	328	0 5	0 88	25 0	11	to 8	1	8	19			0	17		}3	0 8	28 0	98 0	•••	400	+1077	***
10	Durbhunga	0 0 0		0 1	8 0	14	0	***	. 2	0 0	32 8	18	0	19	0	14	8	16	0	16	0	17	0	-00	***	000	***	***	***
00	Montferpore)	18		8 (16	0	28	0 5	19 0	80 0	19	0	12	0	11	0	16	0	16	0	15	0	***	*****	101	***	1000	***
11	Sarun	•••	17	0 1	7 (15	0	26	0 9	16 0	27 0	10	0	10	0	10	0	18	0	18	0	20	0	/11	***	084	80 0	98 0	30 0
19	Chumparun	001	19 Z4	0 1	9 0	18	0	32	0 3	4 0	85 0	13	0	13	0	12	0	17	0	17	0	19	0	010	801	* 6 *	***	140	100
88	Monghyr	90+	16 1		8 14	18	12	27 1	4 8	8 8	81 8	13	15	13	10	14	10	16	0	15	12	18	14	***	***	***	***	400	***
16	Bhagulpere	04+	Z6 16		3 6	14	8	24	0 2	7 12	80 6	16	9	15	2	17	11	17	10	17	10	21	7	***	***	000	100	***	***
15	Purneab	001	Z6		0	14	0	000		***	041	16	0	15	0	20	0	17	0	18	0	32	0	***	* ***	eg/D	ella.	***	-
100	Maldah	001	16	8 12	0	16	0	***		000	***	16	8	10	0	15	0	17	0	19	0	20	0	***	***	***	***	000	-
97	Southal Per	gha.	16	0 14	0	18	0	***		***	440	16	0	16	0	18	0	23	0	23	0	98	0	000	***	001	-00	***	***
18	ORMSA.	844	13	9 1	6 7	13	3	904	-	004		13	2	13	2	16	18	21	00	21	0	27	9,	100	400		***	180	
10	Poores	004	Z:	0 1	8 5	10	0	000		***	***	21	0	20	0	20	0	23	10	28	10	24	0	100	160	000	***	***	***
la -	Balacoro	* ***	Z4	0 1	6 (16	0	000		***	***	16	0	16	0	26		28	0	28	0	82	0	***	004	004	***	***	***
	"UHUTA N	IAU.	POR	E.	TH 09				1												,						1		
11	Hazaroobagh		. 7/50				0	20	0	10 O	***	9	0	10	0	10	0	16	0	16	0	18	0	***	•••	60 1	004	***	-
13	Louardungs	990	15		6 0	16	0	20	0	81 0	24 0	18	0	18	0	20	0	29	0	88	0	99	0	***	400	10	184	100	600
68	Singbhoom	00+	18 Z1		8 (20	O	88	0	38 0	1	36	0	56	U	32	0	40	0	40	0	36	U	994	101	***	***	000	***
66	Manbroom	***	18	0 1	8 (118	0			000	100 mg/s	17	U	17	U	10	0	25	0	27	0	80	U		***	100		100	***

CALCUTTA,
The 7th August 1888.

[•] In the interior retail prices of common rice vary from 28% to 30% seems per rupes.

U. Retail price of salt at Kumeriah 10 seems, and at Hathararee and Cox's Bazar 8 seems.

V. In the sub-divisions retail prices of salt range from 5 to 12% seems.

M. In Nowada retail price of salt 10 seems.

X. In Nowada retail price of salt 10 seems.

X. In the sub-divisions retail prices of salt are as follow:—Baxar 11% seems, Bhuboos 10% seems.

Z. In the sub-divisions retail prices of salt are as follow:—Madhuban 10 seems, and rappore 11% seems.

Z.1. In the sub-divisions retail prices of salt range from 10 to 12 seems.

Z.2. In the sub-divisions retail prices of salt range from 10 to 12 seems.

Districts of Bengal for the Fortnight ending 31st July 1883 .- (Concld.)

81	KKR	OF 80	TOLA	H8.	3 200 2 200					-				To do a			Water Control		ERBALE IN MAU:	NO OF	
	LAGI	en Mil or M m Chi	AWA"	MAH	COLE			GRAI	t	1	Pinn	wonb.			SALT				SALT		
	Present reinen.	Nost proceding rature.	Corresponding roturn of last year.	Present return.	Next proceding reture.	Corresponding sours of last year.	Present return.	Next preceding return,	Corresponding return of last year.	Present return.	Next preceding rature	Donqiiik	of that year.	Present return.	Next preceding return	Corresponding	of last year.	Pretent return.	Next preceding return	Corresponding return of last year.	otatrict».
_																		2	Eastorn	Distric	te(Concluded)
is	Ch.	R. Oh,	R. Ch.	8. Ch	. R. Ch	18. Ch.	. 14. Ch.	9, 05	. P. Ol-	اع. دا	. S .	ъ., н. С	h.ja.	Ch	N. CI	8.	Ch.	Re. A.	Re. A.	B4. A.	
		ā e s	***	40.	000	***	18 0	12 0	16 0	40	0 40	0 80	C 10	0	9 0	13	0		4 0	2 14	Chittagong.
1	40-	441					12 0	18 0	111 0				10	0	10 0	11	0	8 9	8 8	3 2	Noakholly.
	401		***	101	***		18 0	16 0	18 6	***	***		19	0	12 0	12	8	3 6	8 5		182
	***	***	***	001	***	***		•••		320	0 820	0 820	0 6		6 0		9	6 0	0 4	3 4	Tipperah. Chittagong Hill
	.,						12 0	12 0	16 0				11	0	11 0	10	0	3 4	8 4	8 6	Tracts. Hill Tipperate
1		,					,		•												BEHAR.
-	***			81 0	32 0	81 0	26 0	18 0	80 0	180	1 180	0 130	0 10	8	10 8	10	8	3 0	3 0	8 0	Patus.
	4.4	4	•••	400	***			23 0		180	0 180	0 180	0 11	0	12 0	12	8	3 6	004		Gya.
1	•••	048	***	***	-	{	to	27 0 to 28 0	28 0	120	120	0 120	0 12	8	12 6	12	8	8 1	3 1	8 1	Shakabad.
39	8	80 0	35 0	000	***	1 000	22 8	24 0	22 0	160	0 160	0 160	0 10	0	10 0	10	4	8 10	8 10	3 4-6	Darbhanga.
	***	•••	***	82 0	32 0	35 0	21 0	22 0	23 0	140	0 140	0 140	011	0	11 8	12	0	3 6	8 7	3 4	Mosafferpore.
140	0	80 0	31 0	26 0	28 0	29 0	25 0	28 0	27 0	160	0 160	0 160	0 11	0	11 0	11	0	8 6	8 6	3 6	Sarma.
	***		900	***	***	41 6	28 0	28 0	28 0	***	.01		11	8	11 8	11	0	***	***	8 8	Chumparum.
	***		400	28 11	28 6	31 8	25 11	25 3	26 4	196	0 147	0 126	0 12	9	11 8	19	10	8-1-9	8-2-9	8 1	Monghyr.
	***	000		***	***	44 8	99 11	4 0	95 14	126	8 188	6 134	412	10	12 10	13	10	3 0	8 1	9-16- 11 <u>1</u>	Blaguipore.
	***					***	20 0	16 0	22 0	160	0 190	0 160	0 10	0	10 0	10	0	3 8	8 8	8 8	Purussh.
	401	***	10.		4	***	82 8	:2 0	22 0	160	0 160	u 200	0 13	0	12 0	13	0	3 4	3 4	3 9	Maidah.
1	100	***	•••	31 0	ize o	39 0	19 0	20 0	20 0	200	200	0.300	010	0	10 0	10	8	***	***	8 12	Southal Pergla.
			Η.	1		1			1	1	1				1						ORISSA.
18	0	18 9	.7 1		•••	***	10 0	17 1	21 0	80	0 80	0 160	0 14	0	14 0	18	0	2 12	2 13	8 0	Cuttage,
-	•••	***	•••	**		•••	17 1	18 6	14 0	90	0 100	0 100	014	0	14 0	16	8	2 19	2 12	3 19	Pooree.
1	***	***	- 04				14 0	14 0	18 0	190	0 190	0 140	0 8	0	9 8	18	0	4 6			Balaste. NAGPURE. Frontier Agency.
30	0	80 U	22 0	22 U	20 0		18 0	18 8	18 0	240	940	0 800	0 10	0	9 0	10	10				Basareebagh.
-	0	18 U	82 U	***								0 120			9 0		0	4 7	4 2		Lohardugga.
	100	,		***		****	24 0	96 0	34 O	160 (160	(8)	0 8	8	6 0	8	0	5 8	5 8	6 7	dingbhot m.
-	***	00	hor	***	96	10 0	17 0	17 0	17 0	190 €	190	190	010	0	10 0	11	0	3 10	.8 8	100	Manbhoom.

In the interior retail prices of salt range from 10 to 12½ seers,
In the sub-divisions retail prices of salt are as follow:—Benuerai 10 coers, and Jamui 11 coers.
In the sub-divisions retail prices of salt are as follow:—Benka 11 seers, and Muddenpura and Scepale 10 seers.
In the sub-divisions retail prices of salt are as follow:—Kissengungs 8 coers and Arrareab (at Manacquige) 10 seers.
In Khoorda retail price of salt at 18 seers.
Retail price of salt at Rhurruckdiha 11½ seers.
Retail price of salt at D dongungs 9 see s.
Retail price of salt at D dongungs 9 see s.
Retail price of salt at Rhurruckdiha 11½ seers, Burrabiant 10 sours, and G bindpore 11 seers.

Published for general information.

WHOLESALE PRICES-CURRENT of Food-grains, Firewood, and Salt in

						W	W. o	BAT							Bat	RLW	T .					16:	CR	, 3	91 IVT	90	RT.					Ric	on.	001	E ME I	OK.	,			MEOO,	
700 CB + 42	marts.			Present return.			Nest preceding return.			Corresponding return	Of last year.		Propent return.			Next preceding reture.		Corresponding return	of last year.			Present return.			Nest preceding return.		Corresponding return	of last year.			Present return.			Nost preceding return.			of last year.		Present retarn.	Next preceding roturn.	Corresponding return
			R	. 4	. P.	1	L. A	. 2	R	. A		R	Δ,	P.	R.	Δ.	P.	R.	۸.	7.	н.	۸.	9.	R.	A . :	P.	R.	۸.	F.	R.	۸.	P.	R.	4.	P.	R.	۸.	P.	R. A.	R.A.P	R.A.
3	Calcutta *	60+		901			94 *			400						+++			417						941	1		040			. 94			464			•••		901		10
2	Sormanago	***	1	19	(1	14	. (0. 1	. 14	0		*1*								4	0	0	6	0	0	8	7	0	2	8	0	2	6	0	1	7	0	***	100	
8	Dacos	584	8	1	0	8	1 1		0 9	15	0	1	12	0	2	0	0	0	16	0	2	4	0	2	8	0	1	5	0	1	13	0	9	D	0	1	8	0	0	o	***
6	Naruinguu	go.		***			***			000			è01			404			491		1 :	15	0	2	8	0	1	10	0	1	18	0	1	18	0	1	8	C	*91	***	.000
6	Obittegeng	(to r	8	14	0	8	0) (0 4	9	e		400			***					8	10	0	8	16	0	2	4	0	1	14	0	9		0	.1	8	0	***	000	000
	Patus	_	2	14	6	1	3		0 9	2	8	1	4	6	1	8	0	1	8	0	3	11	0	9	11	0	8	0	0	8	8	0	Si	8	9	1	11	6	000	464	40
7	Halasere	00+	8	19	0	1	14	. (8 0	0	0		101			000			000		8 :	10	0	3	8	0	1	9	U	1	5	U	1	8	C	1	5	0	100	***	10
	Poores	001		***		1	***			860			000			***			•••			• • •			000					8	3	0	3	2	0	1	10	8	444	801	-
	Cuttock		-	14	. (9	10) 1	0 9	14	0		101			***			***		8	0	0	8	0	0	9	6	0	1	11	0	1	11	U	1	6	0	004	000	00

Return not received.

CALCUTTA,
The 7th August 1888.

the undermentioned Marts of Bengal for the Fortnight ending 31st July 1883.

GRRA	T MISS	TT-	RAGI	on Mu on Mu Onwe	RWA		on la	Diaw.		GRA	LM.			,	'IMB	IW00	D.				8.	alt.				
Present return.	Nent preceding return.	Corresponding return of last year.	Present retarm.	Next preceding ratura.	Corresponding return of last year.	Present refurn.	Next preceding return.	Corresponding return of last year.	Present return.	Nest preceding return		Corresponding return of last year.		Present return.		Next preceding return.		of last year.		Present refurm.		Next preceding return.		Corresponding return of last year.	a	MARTH.
R. A. P.	B.A.P.	R.A.P.	R. A. P.	R.A.P.	R.A.F.	R. A. P.	R.A.P.	R.A.P	R. A. F	B. A	. P.	R.a.p	. B	. A. 1	P. SI	B. A. F	. R	.A.P.	R	. A.	P.	.A.5	J*. E	₹.Δ.	P.	
% .		***	901	***	***	***	34+	459		00		***			1			***		864		* 0-0			Ce	alousta.
984	960		660	.00		100	00.0	000	2 8	3 (8 0	8 1 (100				***	9	16	88	0	0 3	8	0 80	rajgunge.
24.0	***	001	860	•••	***	***	0 4+	601	3 6	9 9	6 0	1 14 (0	6	6.0	6 (0.0	5 0	3	6	03	4	03	8	O Da	100a.
444	*41	080	***	***	***	904	•••		8 4	9 8	8 0	1 16 (0	7	00	7	U O	7 0	8	8	03	8	08	9	O Na	araingang
401	000	100	***	****	***	000	800	***	3 0	0 8	0 0	2 8 (0	δ	80	5	80	8 0	6	0	0 4	0	0 2	16	O Ch	nittagong
00.0	ee+	000	***	•••	.4.	1 6 8	1 8 0	1 9	1 8	8 1 6	8 6	1 6 0	0	5	00	6 (00	5 0	3	0	0 8	0	08	0	O Pa	itma,
	600	000	***	400	***	840	***	000	2 19	9 14	6 0	8 9 (0	6	4 0	6	40	4 0	6	6	0 4	6	0.8	9	O Be	dacora.
001	000	490	***	000	004	***		600	0 0 0	001		***		***		101		***	2	19	0 2	13	08	18	o Po	00 P09,
***	400	600	200	800	220	000		***	9 0 0	2 5	0	1 11 0	0	8	00	8 (00	4 0	3	12	4 2	151	08	0	O Cu	Mtack,

Published for general information.

COLMAN MADAULAY, Secy. to the Goot. of Bengel.

Meteorological Report of the Province of Bengal

NO.								STATI	ON OBS	BRVATI	ONS.					
Drets			A	IR PRESS	WRD.	Win	rp.				MPRRAT				Hity Ser.	THE PERSON
Methodorcal Division	DISTRICT.	Representative, atation.	Mean harrometer beight, 10 a.m.	Mern reduced to scarnitel.	Variation from	Prevading direc-	Mean wind velo- city miles per day.	Highest during week.	Lowest during week	Mone maximum temperature.	Mean minimum temperature of week.	Mean daily tem- perature of week.	Variation from normal mean of week,	Mean 10 A. M. temperature.	Average humidity at 10 A. M. for week.	Average cloud amount
20000	1_ (Goualpore	29:575	29-625	-	8	165	8818	75'8	83.0	70'0	61'8	-	82-7	83	61
	Proree ?	Faise Point	29'885	50.007	1018	W	264	02'8	761	87'0	76.7	81,5	-1.9	85*8	78	0.3
OBTREA.	Cuttack	Cuttnek	20:530	29:612	-	8W	86	92.4	7318	8910	77.5	82°R	[-11]	84*2	74	78
O	Bulanoro	Balasore	29'514	29.578	-	8W.	- 267	10.4	78'7	89314	77-8	02 1	-	83.4	70	7.7
	South West Midnapore	Saugor Island	2018/10	29'593	011	8W	398	2'08	77.0	67'3	80%	£8·5	+0.3	83.5	87	1 77
	Midanpore	Midnapore	29:431	20'572		Variable	P	2.06	73 3	. 8814	76'1	81.3	-	62.3	8.5	814
	st-Pergunnaha)															
	Howmh	Calcutta	29/5/63	291567	1094	6W	141	81.0	78'2	8*80	77.8	8212	-1.8	92'6	87	914
	Boonlily															
BERGAL	Burdwan	Burdwan	20.463	20.963	-°080	8	96	9816	75.4	86'8	78.0	82.4	-1.2	80°5	88	100
Buch	Bankoora											00.0			-	
150	Reerbhoom	Ranigmuj	29 1819	_		BW .	_	808	75'0	87.9	77.5	82.7		81'8	91	79
	West Burdwan		001402	20:554	411.40		24.44	-		00.0	moun	83-1		00.1	***	
Rotter	Moorshedsbad	Berhampore	29'487	20 004	049	8	Discourse of	ntions no	75.5	87.6	78'5	047 1	-0.0	881	87	0'7
-	Nuodea						Comerc	across in	Coomin	HUNG.			1			100
	Jessore	Jessore	291346	39°578	032	8	106.2	80.8	7014	88*8	77'4	83.1	-0.8	56'1	84	6.0
	Khootna)	Chittagong	201572	20:062	-1007	SE	768	8616	75'0	82'5	73'6	791	-8.3	80-7	88	710-
	Chittagong	Demagui	1			011	1	rvations	1		100	-				
1	Chittagong Hill Tracts .	Revoluel	29 571	_		В	181.7	85'1	77.3	83 7	20.8	81.4	_	82.8	90	6.01
(Backermanj	Noakholly				Observation										
	Purrosdpore	Parredpore	291543	_	_	83	10818 1	90"8 ;	77'1	87.6	78'6	83.1	_	82'9	86	70
AL		Docen	20 54N	20-5639	-1040	8	184	88'3	77-2	87 7	79-1	83.1	+314	88.6	85	7:9
BRYGAL		Committah	291563	20'619"	-	SE	2 1	83.6	75.0	81'7	76'9	79.8	_	81.6	90	8.6
#		Mymensugh	291552	-	-	SE	176	90'3	76 0	80'8	78'1	83'4	-	83'6	86	0.8
80		Sernjeunj		1		Observa	tions cor	nmenced	3rd Augu	ast			- 1			
		Rampore Benulosh	211'472	29'546	-	NW	207	91'6	73'6	80 S	79'1	84'2	-	84'5	81	811
(Dinagepore	29144+ 1		- 1	OR	168	921	76.6	00.0	7014	84:8	-	84'0	8.5	7.7
27	Rungpore	Rungporo	20:470	-	-	8 E	151	9218	77.0	80.8	7814	85.7	-	85'6	76	67
Kur	Julinarroe)	Julpigoree	29:291			E	120	8010	76'1	0810	99.40 e R	62 7		63.0	Q/7	7'0
量	Cooch Behar	# nipigoree	20 291	-	-		120	100.00	10.8	87.0	77.8	06.1	-	00 0	87	
WARTE .	Durjeeling Hill Districts	Darjeeling	22°H65	-	-	B	55	6916	67.2	69.1	43.8	63.1	-	63.0	86	10:0
P. 1	1	***	2012/9	29 572	-	Variable	?	8814	69.0	84'0	71.6	77'8	-	83:8	88	70
i i	Simhabad	Hower	291381	20'672	-	Variable	127	91 4	77-7	87 5	79.3	83.4	-	83.1	85	199
			201364	-	-	Variable	000	20.7	77'6	88.0	79.8	83'7	-	83.6	8.5	8.7
ei (29:367	91544	'089	Variable	20	012	74'3	87*3	769	91.1	g-B	88.3	67	879
REH 12.		Bankipore	29/379	29/5/12	083	Variable	60	84.4	76'8	93.1	80:1	8616	+1'9	83.0	67	10'0
	south Busknibore }	Bhagulpare	201364	201509	-	Variable	103	92'0	79'0	89.b	78-1	86'7	-	88-1	83	8.0
Монти	Monghyr)		AD. 185			M to 22	1					0000			-	014
-		Doomka!	29:176	-		See	-	89-1	76'B	87'2	70'7	88.0	-	82"3	92	
. (Purneah}	Purnesh	20.105	201540	-1040	E	41	92.5	77%	90.7	79'4	8811	+0'8	86'4	80	86
BETTA	North Bhagulpore	_	1								1		_	-		
THE Y	Donal Course	Durbhungs	291849	29.583	031	E	109	80'6	79'0	8914	50'8	84'8	-0.9	89.8	88	416
B2	Durbhunga)	Motihari	_	_		BB	_]	87.1	76'9	85'4	76.2	81-9	-	86.9	76	10
-Luz	Samue (-	291300			Variable	27	88.2	79'0	86'4	80-6	83.9	-	84.8	94	913
	1 Stanoulbank	Dance divert	1		4	Variable	199	80'5	72'0	80'4	74.2	77.8	-0'7	77'8	90	21.70
NAG.	Lohardner	HERMITOREE							100	00.4		110	-07			•
PURE P		Ranchee	27:633	29:506	-	-	-	80.0	69'7	80'2	71.8	76'0	-	70'9	88	97
CHO		Ulsybaana				Ohaa	rvations	not comm	hoonod							
		•		1	1						1			1	3	

Replacation of Summary.—The normal means of a'r pressure and temperature are the arithmetical averages or means of the readings during the same time to the atmosphere is expressed as a percentage, saturated air being represented by 140. A clear sky is denoted by 0 and an oversuct seventing of the normal means are the new orient means of averages of the rainfall in that district determined from the returns cent in by the sub-divisional stations in the district sending in returns divided by the number of stations. A rainfall in that district, (i.e.) the total rainfall a the sub-divisional stations in the district sending in returns divided by the number of stations.

for the week ending 3rd August 1883.

					27172 MIU	T OBSERVAT	20210.								
9 9						RAINVALL.									
tation	O! W	reck.	8	ince lat of m	onth,	Sin	100 läth M	ky.	mber days	days	Represent		DISTRI	OT.	
cheering station.	Fran for Cistrict.	Formal mean for district,	Mean for district,	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.	Average number of rainy days during the week,	Normal number of many days of week,	•				
1.76				1						1	Gopalpore	}	Danie		
.99	1.58	371	15 04	14'27	+0'77	89*80	84*86	+7'66	612	412	Palse Point	5	Pooree	***	**
180	1.75	8:01	14'89	14'88	-0.16	81.89	25-11	+6.11	8.7	8.8	Cuttack	***	Outtack	***	* 6-
-46	2.78	3.60	14:71	15:40	-0.99	23.60	85'15	+7'46	8.8	410	Baissore	***	Balasore	***	
50	2188	8*29	19:81	15'94	+3'87	31.28	28:35	+3:23	8.8	6'5	Saugor Islan	d{	South-West South 24-Perg	Midne unmb	
45	7*80	8104	17'90	13.28	+4.63	26107	26182	+0.75	810	8.9	Midnapore		Midnapore 24-Pergunnaha	998	400
187	6'37	8.39	19.11	13 36	+5'75	80-12	28-29	+8.83	6.1	4'9	Caloutta	{	Howrah	***	001
												[Hooghly	***	49.0
.08	7.06	8:20	20.48	11.20	+610	38.21	22109	+10:63	6.0	8.8	Burdwan	861	Burdwan	***	010
												1	Bankoora	***	001
70	5'03	8.87	18:38	18.98	+6'65	34'07	26'81	+7'56	6.3	4'5	Rangunj	{	Beerbboom	***	840
110													West Burdwan	****	
	277	8'48	18111	18:19	-0.08	95*91	36'06	+1'85	8'0	4.8	Berhampore	00+	Moorshedshad	***	100
	8'18	2196	12'04	31'42	+0.63	28'47	35*00	-1.68	418	4:0	*****		Nudden	***	404
28	4:00	3161	15.28	12:00	+2'98	27:00	28'92	-1'08	6.3	4.7	Jessore	{	Jessore	000	4 10
7			81100	0.4100	0100	84-93	M0+00		free		(2) 14.		Khoolan	+00	4.03
'63	10-61	8.82	31'96 13'66	84:07	-2'09 -6'93	34'43	69.83	+16.18	7.0	5.0	Chittagong	***	Chittagong	***	***
96	4108	87:08	18-93	20.20	-6.53	35.61	44:09	-9.68	6'5 5 -7	6.9	Demagri	***	Chittagong Hill	Trac	16a
	8'82	6'76	26.91	20.12	-1'06	67.78	46°29	+8:48	8.0	\$·9	Barrisal Nonkholly	***	Backergunj Noakholly	***	***
_	8.86	8.86	16.00	18'90	+2'10	27*88	81:41		6.7	4.8	Parreedpore	***	Furredpore	*0.0	***
97	8196	4:51	10'04	15-82	+8123	30:01	84'00	-8.99	517	6.6	Dacca	400	Duces	410-0	0 = 0
81		4:97	2000	16'08	10 22		88168	-3.80	0 /	5.0	Committah	04.	Commiliah	000	***
16	3166	3'67	13.01	18:54	-3.93	36163	87:89	-11:27	8.8	4.6	Mymonsingh		Mymensingh	990	044
	1.08	3'14	10.88	13:32	-2:33	24'99	99.78	-6'78	4'5	4.0	Serajgunj	***	Bogra and Pubi	***	040
17	1.78	3.49	8.78	13.63	-4'89	81'48	27:00	~5'67	4.7	6'8	Rampore Boaz	lanh	Rajshahye		***
1	2'96	1.93	8:79	18'40	-3'61	\$3117	81.90	-8.00	6.8	61	Dinagapore		Dinagopere	***	00-1
88	1.03	3.00	8'01	16.47	-8'46	26'60	66186	-21'36	8'8	8'7	Bungpore		Rungpore	***	***
						80145							Julpigoreo	***	***
81	9.98	2.99	19'04	30.92	-1.40	00.00	63 96	-12.91	6.0	6.2	Julpigores	{ ·	Cooch Behar	100	
30	8.46	8-83	27168	43106	14'88	81.75	87'01	5'26	6-0	6.0	Darjeeling	***	Darjeeling Hili	Dietri	ote
98			13189			ł			٠	2	Debree]			
10	8'88	8164	- 17	18120	+0'25	21.93	19198	+3'98	6:3	8'9	Burne		Shahahad		
20	200				İ					P	Arrah]			
78	- 6'26	4:17	18-86	13°88	+5'88	80.17	90'88	+9'85	818	818	Gyn	800	Gya	000	204
88	4788	9.06	16'05	18'68	+8'47	83*09	20'00	+12'00	616	3'6	Bankipore		Patna	***	***
14	6136	3-38	18:43	12:80	-0.48	96'80	81'04	+3:16	818	412	Shagulpore	2	Bouth Bhagulpo Monghyr		
29	3.38	8'78	18*28	14'13	-0*84	26:66	25-15	+1:68	6'3	618	Doomka	1	onthal Pergunn	aha	
22	227	2.78	9:33	15:48	-8'96	\$3146	28'69	+4'79	4.3	6.1	Purneah	9.7	Purueah North Bhaguipo		***
71	4'63	2180	11:45	18:15	-0-70	26'41	20 56	+7*85	6'2	3'3	Durbhunga	5 1	dosufferpore		00+
13					+1.36	20108			8.7				That man man	100	
70	8:78	1'98	18:67	19:29		26'44	22'13	-8:15			Motihari			**4	***
28	8:73	2'68	16:88	18'77	+8'81	24'86	20*98	+6'16	610		Chupra Hassribagh		Insaribash	400	
		3'80	17'33	14'68	+2'54		96'89	+0187				-	Lohardugga	P80	100
1	8'96	6.97	18'61	15:87	+9'74	90.07	25'09	+8188	6.0	67	Ranches	31	Mambhoom	700	***
	11'64	3106	21'85	18'14	+7-41	32:10	29:33	+3'77	619	6.8	Chychaen		linghbhoom		***

of for the past 19 years. The variations are negative when the mean for the week is less than the corresponding normal mean and positive when greater

The number denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head "district obseral stations for the period in question during the past 12 years. The "means for the district" are the numerical averages of the rainfall returns received
as one on which at least an hundredth of an inch fell.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 3rd of August 1883.

					RA	INTALL.				Tot	est.		•		
Meteorological division.	District.	Station.	Saturday, 29th July.	Sunday 29th	Nordsy, 30th	Tuesday, 3:st	Wednesday, 1st Angust.	Thursday, End August.	Friday, 3rd August.	Number of rainy days.	Rainfull of week.	Total rainful from 1st July to 3rd August.	Avernue total ratu- fall from last July to 3rd August.	Total rain- full street 15th May.	Averna tranfal from 15 May t date
URISMA	l'uoree	Pooree Khurdah	0.11	0.01	0 29	0.13	(176) . (176) .	0°80	0.10	Б	1'47	14'80	12:33 14:53	83'69	21
-		Banpur Indea Point Hookitola	0.03	0'07	0:10 0:02 0:05	1°28 1°63 0°78	0:14		0.10	-6	3199	15'76	13 50 16 66	86'97	26 23 27
	Cuttack	Jagatsingpore	6:19	0.10	(103	0*10	P8.44	1.10	23.11.4	2	1.60	12.43	11.70		20
		Biniki Cuttack Kendrapara	0.00	0.75	0183	0.52	0121	0.65.0	0.80	4	St. on	15*70	15:60 14:03	32.72	27 24 25
	Balusore	Chardbali	*****			3190	0.05	******	p44444	2	1'95	18°87	16'78	33'15	88 27
		Rhuddruck Sordi Ralusore Je haore Baripodah	0.01	*****	0°48 0°48	01 les 2250 0160 1744 0 92	0135 0135 0132 0122 1196	0.30	0.40	8	2 50 2 65 1 65 2 60 6 25	18:20 11:02 11:05 10:00 18:40	16-70 16-09 16-58 17-22 16-79	81 192 29 42 52 62 83 65	201 201 201 201 201 201
BANGAL.	Midnaporo	Contai Sanger Island Tumlook Midnapore Ghatial	0.12 0.12 1.08	6.15	0:05	1107 8154 8120 1100	(r 21 (r al) (r da) (r da) (r da)	0182	0.<0	32 3	1'31 3 13 9 30 6'10	20/32 20/83 22/80 14/60	16:13 16:16 18:48 42:43	36:22 34:39 30:70 22:38	27 9 94 24
Sign.	24 Pergunnaha	Dinmond Hur-	0100	,	0.50	1.00	1:3+	0.43	0.61	6	3:31	18'27	16'33	25.14	25
		Hour. Alipore sail Harrackpore Dum-Dum Basaset Buscorlint	0.40 0.40 0.40 0.40	0.80	0°88 0°84 0°7.1 0°85	1 81 1 55 2 30 1 76 8 69	1150 1161 1162 0176 0190	0°19 0°07 0°05 0°00	0.01	7 5 6 5 6	6147 4127 4103 3170 8194	10.70	14:18 13:09 .2:45 11:25 13:18	27 188 28 00 28 49 27 34 40 40	27 26 26 26
1 4	Howrah	Howenh	0.40	2*00	0.87	2.67	1143	0.07	0.03	6	6:91	16'46	18/00	26°38	24
	Hooghly	Surampore Hosphly Jehannhad	0:37 0:40 0:28	0'26	1'34 0'01 0'08	1189 1124 8189	67104 8704 2793	0:07 0:08 0:83	0.03 0.03 7.93	7 7 6	4 31	17:09 23:71	78'08 32'14 14'03	28°81 38 75 28°97	181
B.	Burdwan	Culna Burdwan Cutwn Rancegungo	0.12 0.40 0.40	0.01	1.08 1.13 0.03 1.77	1 6 1 8 143 2 197 1 155	8 63 1 50 4 62 0 87	0°03 0°14 0°14	013 à 013 à 0130 0105	5 7 8 7	6:42 6:26 7:50	28% 16'08	11.83 11.43 11.48	32°83 58 68 90°13 40°00	2.5
	Bankoora	Bankoora Bishenpore Maliora Kimtva	0.30 0.32 0.10 0.10		9:45 0:26	1.58 5 00 1.18	0185 0176 0197 1162	80.0	0°10 0°25 0°07 0°09	6 5 5 6	4°56 2 6 3°08 4°56	11.18	18'17 13'35 12'81 17'78	28:34 25:50 27:31 24:21	25 25 27 24
W-1-	Beerbloom	Bh. Soory	0.12		1.02	1:11	9:17 1:81	6700	0.04	6 5	10:00	27'89	14 13	80.41	20
	Nuddea	Bongong Ranaghat Kashusahur Choondanga Mehorparo	0°11 0°14 0°15 0°14	0*10	1 39) 0 21 0 40 0 00,	0°35 0°55 2°04 0°15 0°15	3'70 3'14 6'09 9'02 0'39	0°06	0.19	8 0 5 5	5180 7181 2161 1167	17:47 25:15 8:00 8:70	12:00 10:80 11:57 11:12 10:03	28-73 861-73 16-11 26-43	200
	Khooina	Satkira Bagninat Bhoolna	0.34	0 0s 1 17	0103 0102 0 05 0125	4°88	0.07 0.00 1.00 1.00	0.12	0.10	7	7183 3157 3 08	24.53	12°11 15°09 10°23 -13'81	23/8/ 88/8/ 20/3 25/0/	3 29
	Jossore ,	Narail Jussore Jhendah Magosuh	0°15 0°11 0°08 0°10	0.13	1120 0101 0108 1177	0:32 1:50 0:66 0:75	1143 1126 0.56 1125	0'40 0'07 0'28 0'17	0:50 0:02 0:30 1:03	7 0 0 0	6:22 3 65 1:36 5:10	13'84 10'61 11'18	10%2 12%8 11%0 11%7	95-24 24-14 22-1	9 95 0 90 9 27
	Moorshedshad	Kandi Rampere Rani Berbangere Labash Asmaunge Jungipore Lalgoin	0.17	0°50 0°50 0°55 0°55	0.84 0.41 0.00 0.10	2:50 2:47 0:08 2:30 0:44 0:50 0:50	0°10 2°50 0°35 0°35 0°35	0.08	0°90 0°22 0°23 0°17 0°12 0°13	8 7 8 7	3 91 6:37 2:07 2:70 1:10	25:61 25:58 20:28 11:08 12:48 10:21	13165 1217 12183 1991 11141 12189	2010 32 13 243 200 231	4 23 2 26 1 25 21 21
RAST BEFGAL	Chittagonic	Cox's Baser Chittagong	1°13	8:21	2105 1105	4131	2:00	0%5	0.10		14.0		13 35 43 35	93.9	5 - 50
	Chittagong Hill Tracts.	Rangamati Ruma Agartola	0.04	6.723 1765 U'ol	1°10 0°75 0°35	0.72	0°74 1°25 0 72	0°28 0°03 0°25	0.44		2190		23-19 17 03 13'76	8 1135 46144	
4.	Backergunge	Patuakhally Forozoporo Burrisal Bhola	0.41	0.83 0.65 0.82	9°40 0°07 0°35 1°45	0.70 0.48 0.20 0.74		0°25 0°02 0°77 0°40	0.00	6 7 6	4'00 2'8- 4'8' 4'00	1 14/43 10 95	25/09 19/02 17/23 15/04	40193 33138 88167 88166	335
11	Noakholly	Noakholly Fenny	0166 0120	1°13 1°39	0°(5)	2:42	0.01	0.71		5	4.9		20'93	00.50	501
	Furredpore	Madariporo Furresdpore Confunco	0°44 0°50 0°11	0°31 0°07 0°69	0°02 1°20 1°98	0°83 8 47 0°21	0.03 6.32 0.10	0.13	0°06 0°27 0°47	7 7 6	2 86 0 05 8 70	3 36'56 15 06	28 75 15 11 13 02 15 03	28-71 E5 34	337
- 1	Ducca	Mumhigunge Dacca Normigunge Manickgunge	0.40	0°18 0°18 0°16 0°26	0°82 1°00 0°00 0°05	4'62 1'63 4'84 0'21	010 603 042	0132 1109 0153	0.02	5 7 5 8	» 6°55 4°70 0°00 1°60	2 722	14:25 14:21	26° 54 81°64 26°78	407
-	Countin	Condla University Brahmunberra	0132 0125 0125	0'60 6-74 0'25	2:46	175 5%a 050	9.08 0.15 0.20	0:07 0:19 0:35	287-00	6	7'41		19102 17105 12180	45 71	-
•	Mymomingh	Kishorentinge Atm symmetrish Januarpore Sufficient	0.10	0 60 0 27 0 10	1'55 0'52 0'20 0'07 0'07	0.57 0.24 0.41 0.01 0.18	0°16 0 17 0 26	0 17 0 05 0 25	0:68 0:36 0:32 0:34 0:17	4 5 7 4	2'71 1'34 1'41 1 m	18'00 6 2'''89 9'03	18:18 12:48 16:89 16:89	30 00 30 00 20 00	36

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 3rd of Aug. 1883—concluded.

					B	AINPALI	to			To	TAL.		-		
Meteorological	District.	Station.	## ##	\$103	Soth	3154	100	put put	3rd	Of YH.	3	Total min-	Average total min-	Total rain-	Average
division.			Saturday, July.	Sunday,	Munday, July.	Theselay, July.	Wednesday, lst August.	Thursday,	Friday.	Number of	Rainfall Week.	fall from let to Brd August,	inli from lat to Srd August,	indi smeet 15th May.	from 15th May to dute.
North Bregal	Pubna	Pulma Serajgunge	0105	44111	*****	0.11	0°17 0°20	0.02	0.13	5 2	0*56	91 n 12105	11161 1410	21 '70 24'27	263.4
y	Bogra	Sherporo Nowkhilla Hogra Panchbibi	0°15 0°15 0°16	0.09	0°25 0°25 0°69	0.44 0.15 0.44	027 031	0°15 0 (0) 0°07	0°98 0°03 0°03	5 7 8	- 1'016 0'193 g'17	9/76 8/8.1 17/03	16:47 12:73 15:01	17'93 17'75 27'84	37 43 83:78 27:11 33:87
	Rejahnhyo	Benulenh Nattore	0.02	0.56	*****	1:50	0°81 0°15	001000	0.07	4 2	1:30	8 54 6 54 6 50	1874	20:76 la:15 18:05	2015
	Maldah	Maldah	0.43	0.08	0180	0.40	0'24	0.12	0.50	7	1/81	11784	12'01	28-20	2510
C-	Dinagepore	Mohadobporo Churamon Haigungo Dungopore Baloorghat	0.53 0.08 0.03 0.03	0°03 0°06 1°12 0°15	0:37	0181 1144 2138 2113 30	0104 0150 0 06	0°95 0°12 0°17 0°10 4°77	0°18 0°15 0°10	7 5 7 5	2°40 3°14 2°07 2°51	11'10 h'08 7'77 7'35 12'20	12:53 10:15 12:05 14:88	26*1a 21*78 21*85 23:65	33:5- 25- 31:7 3d (R
	Rungpore	Bhawanigunge Bunspo.e Kurigram Bagdogra	1°41 0°15 0°15	0°0k 0'70 0'09	******	0.59 0.59	******	0.00	0°16 0°03	4 5 2	3.13 0.30 1.05 1.05	10 45 477 4724 10 32	13:79 19:94 17:45 15:47	32-50 23-34 27-00 33-60	34/3/ 46/2 48/4 53/7/
	Cooch Behar	Julpigoree	0.01	0.12	2.46	0.10	800111	0.24	0.(0.4	8	7.71	25.16	20°00	66"38	02:80
		Corch Behar Mickligungo Matabhunga	0.00	0.10	2.02	1:32	0,00	0.16 0.34 0.34	0.05	4 2 3 6	2169 4121 0168 1144	1 1 1 4 6 2 2 2 0 1 1 9 7 1 8 1 6 7	12165 20 73 51816 20168	39:08 57:39 44:72 80:03	56 03 05 5 00 14 00 1
	Durfeeling Hill.	Ruxa Silligari Unipeding Kalimpong	0'03	2°27 1°60 1°29 0°52	418 3166 1166 0121	0°18 0°18 0°45 0°53	0°62 0°83 4°64	0.71 1.02 2.11 0.30	1.20 0.02 0.01 0.18	6 7 H G	10:2B 7:00 0:35 0:47	37/92 21/53 22/51 18/10	52·19	90° 40 66° 41	11 sra-
North Brhad	Furnesh	Kissengunge . Arraresh Purnesh	0.01	0°65 0°45 0·49	0°10 0°45 0 02	0°59 0°40 1°30	0:80 0:80	0.05	0.33	7 4 6	3107 1160 2120	11:94 7:71 8:40	17:30 17:06 15:26	36165 8719 38164	3516 3511 263
	North Bhagul-	Maddapore Soopool	0.32	0.30	0.60	0°95 3°10	0.12	*****	0°24 0°65	55 4	2145 4150	13:16	13°35 15°14	01:37 34 45	खुलाबू. डिज डे
	Durbhunga	Inipore in bhunga Madhubani	0.58 0.57	0'05	0169 0150 0156	0188 0188 5196	6174 0174 0102	0*05	0.73 0.14	6 6 5	6:71 2:71 5:13	16*61 7:59 13:05	12°87 12°89 19'61	51-21 27-77 30'02	20124 21 3
	Mozufferpore	Situmnrhi Mozuffeepore Hajipore	0.56	0.48	0.97	1'69 0'44 0'86	1:50 2:-1 3:34	0'81 0'88	0.13	3 G 5	3°38 4'07 4'77	8*02 17:65 14:55	11°15 12°11 12°73	14'83 32'32 36'80	20.4
	Chumparun	Motibnei Bettinh Gopalgungo Sewan Chuprah	1°48 0°56 2°12	0.10	1.70 0.50 6.73 1.10	1°14 1°15 0°06 0°58	1'57 0'93 2'89 1'10 1'07	0'07	0.08	3 5 8	4'80 4'06 5'84 2'97 4'50	12%1 14'70 13 51 16 67 15 07	10'41 1 v 12 13'34 13'47 12'03	10.72 2007 10.72 22.00 20.04	20 s 23 p 22 s 22 s
Sotth Benar	Shahubad	Buxar Debree Bhubouth Sassaram Arrah	0°45 0°80 0°08 0°08 1°04	0°30 0°00 1°67	0°18 1°02 0°05 0°14	0'37 (1'54) 0 75 0 53	0°80 0°80 0°11 0°54 2°67	0°53 3 00 1'00 2'04 0'14	0°40 0°11 0 08 0:05	G G 7 7	3:32 7:15 2:48 4:00 5:40	14:75 15:11 11:12 11:07	12/82 14/08 11/01 11/89	22.63 25.41 19.75 22.75	18.60 18.00 20.14 20.23 15.65
	Gya	Aurungahad Gyn Nowadnh Jehanahad	0,72 5,05 0,72	0°28	1:93 1:23 0:33	1:11 0:60 1:83 0:36	0132 2132 1104 0 88	1*19 1*55 0*64 1*40	0:30	7 5 6 8	5'40 7-79 4 15 7-72	12190 30 93 17 50 2212	11/67 13/60 12/80 13/08	2250 3004 2500 33 01	20*30 20*10 20 37 40 13
	Patna	Patena Disappro Rehar Barris	0°25 0° 0 0°12 0°15	0.10	0°18 1°02 0°21	0°67 0 45 1°70 0°70	1150 1160 1130 5113	0.08 0.40 0.22 0.20	0.10	6 6 6	3°06 8'05 4'41 0'09	11 16 12 76 28 67 16 62	12 65 12 65 13 20	28114 26 90 46 79 31'04	20.70 10.34 20.10 19.44
-	Monghyr	Begoosersi Monchyr Jamus	0101	*****	0.68	1'14 3'70 192	1°89 1°10 2'62	(1'5G 0'00	******	5 3	4*28 4.78 6130	15'66 9'26 16'56	1250 1254 1371	34'36 19 50 23,71	19°15 20°24 21°37
	South Bingul-	Binsulpore	*****	0'21 0'45	1.20	0°18 1°15	2:43	000000	0.03	5 3	4'03 5'40	10.45	12:51 12:50	25'83 17 7s	20187 21 23
	Southal Por-	Rajmehal Guoda Paku r Nya Doomha Decghur Jamtara	0°40 0°40 0°40 0°40	1'48 0'44 1'18 1'01	0.31 0.57 0.81 0.40 0.80	0'89 0'27 0'22 0'31 0'05 0'42	0°13 1/33 0°34 0 %7 1 %2 0°79	0107 0 00 0108 0108 0109 0148	0°14 0°25 0°96 0°01 0°72	8 7 7 7	1.43 4.10 5.40 4.54 3.39	18:54 13:83 11:75 14:71 16:35 16:07	14/08 12/00 16/04 14/05 14/02 16/00	17:46 go to 33:53 go co 31:10 27:85	
PORE.	Hamribagh	Pachamba Bentagura Sentagura Stabadi Hills	0.15	0°17 8°40	0.11	0°22 1°18 1°40	0°81 0'83 0'65	0°20 1°13 0°15	0.12	0 7 8	1137 6169 2166	11 %d 2: 15 MS	1 0 37 1 0 91 1 6 02 15 17	Sh. 59 84 58	20 34 20 34 21 13 31 10
	Lohardugga	Ranchi Pulanow	0'22	0 37	0,83	1'00 1'55	1178	1.70	0.42	5 7	8723 8 24	25'00 15'41	1:11:18 1:6:2	40.02	(85° 67 24 53
1	Singlihoom	Chyebana Purulia Gobindporo	9116 9109 9183	******	1'01 0'41 0'20	2104 0182	6°50 8°67 0°31	6°01 0°32 0°52	0.63 0.13	6 6	11'04 5 %	29150 12150 12153	10°23 14°35 14°27	82°10 85'03 124'04	20104 20104 20104

santing, the corresponding space is left blank. If some of the returns are left blank. If some of the returns are

SUMMARY OF METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 3ad AUGUST 1883.

The principal points of interest in the meteorology of the past week have been the westerly advance of the slight barometric depression noticed in the summary for the previous week, and the formation of another barometric depression in Eastern Bengal, its subsequent advance in a north-westerly direction, and final disappearance. The formation of this first barometric depression was explained in the summary of July 27th, and its course was traced from the Sunderbuns, where it took its origin, into Midnapore and the adjacent districts, where it was on the morning of the 27th instant. During the following day the depression advanced into the southern districts of Chutia Nagpur, and on Sunday, the 29th instant, it apparently filled up and disappeared. This depression was of slight intensity only, but it brought general rain to the districts through which it passed, and its advance into the interior was of course accompanied by increased indraught of moist southerly winds into Bengal. The rainfall was not heavy on the 27th and 28th, but on the 29th, in the districts of Eastern Bengal, heavy rain commenced to fall; the heavy rain continued over this area on Monday, 30th instant, and the rainfall was accompanied by a gradually falling barometer, and thus the nucleus of a barometric depression was formed; a continuation of the same conditions on the 31st intensified the barometric depression, which was, however, never more than a shallow one, and had no very clearly defined centre of disturbance; the depression was on that date in the immediate neighbourhood of Dacca. It was now giving rise to moderately strong winds of convergence, with overcast skies and general rain, moderate to heavy in amount, over the whole province, the heaviest rainfalls being in Eastern Bengal and in South-West Bengal.

On Wednesday, lst August, the depression commenced to move in a north-westerly direction, and on the Thursday had almost entirely passed away. The advance of this depression caused a further inrush of damp monsoon winds over the whole province, producing overcast skies and moderate to heavy rain, especially in the southern and south-eastern districts. The rainfall in the North Bengal divison was not so heavy as in others, and in the Rungpore district in particular, rainfall has been comparatively scanty. After the disappearance of the second depression, normal monsoon winds continued to blow on the 2nd and 3rd of August, but they were perceptibly becoming weaker, especially on Friday, the 3rd instant.

Pressure has been generally below the normal for the week; on the 26th instant it was below the average by small amounts, but it gradually recovered itself until the 30th instant, when it began to give way again. With the development of the second barometric depression pressure fell rapidly until it was 0.12" below the normal at Dacca; the line of low pressure varied with the advance of the depression, and, as it filled up, pressure returned nearly to the normal state. On the whole, the barometric pressure has been below the average for the week, ranging from 0.059" in defect at Gya to 0.011" in defect at Saugor Island. Temperature commenced to rise somewhat at the commencement of the week, and was, especially in Behar, above the average, but with the heavy rainfall, it afterwards fell considerably below the normal; on the whole, the temperature has been rather lower than the average by amounts varying from 1° to 2°, except at Dacca and at Bankipore. Patna continued to register the highest maximum temperature steadily throughout the week. Winds have been slightly irregular during the week, due to the formation and advance of the two barometric depressions above referred to. Westerly winds have still been a prominent feature in Behar, and this is one of the more important abnormal features of the present monsoon. At the close of the week winds were almost normal.

Abstract of Meteorological Report for the week ending 3rd August 1883.

				THE	BRATT	TIRE						RAIN	PALL.				
		r week	week.	/ vore	ge for	wook.	reek.	•	N woo	it,	R	siny de	yn,		e let		May
South-West Bengal East Bengal North Bengal North Beliar		Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week in	Average.	Normal average.	Variation.	Arerage number in week.	Normal average num- ber.	Variation.	Average.	Normal average.	Ателця.	Normal average.
South-West Bone East Bengal North Bengal	000 011	92'8 92'8 90'8 92'8 94'4 92'2	75°1 70°4 75°0 75°0 75°0 76°9	86.8 87.3 85.0 80.8 88.1 88.0	76.0 77.9 77.9 76.4 76.7 70.7	82.0 82.0 82.0 85.0	-1.5 -0.7 -0.4 -0.4 -0.0	2:13 4:75 4:26 2:34 3:93 4:45 8:85	8°29 8°40 6°01 2°73 3°43 8°58 8°90	-1:16 +1:38 -0:75 -0:3* +1:50 +0:37 +1:90	4.0 6.4 6.0 4.8 4.8 6.0	6°0 4'6 5'1 6'3 3'6 6'0 6'8	0 +1'-1 +0'-9 +0'-2 +1'-8 +1'-8 +1'-8	18'62 11'89 11'97 14'66	14'63 12 06 18'84 15'2 13'24 13'32 14'90	32°67 30°90 38°12 32°22 29°46 26°37 27°94	25.0 25.9 43.4 42.0 21.2 25.9 26.0

The rainfull of the past week has been considerably in excess of that of the week ending the 27th July; this excess has been most marked in Chuta Nagpur North Behar. and South-West Bengal. Over the whole Province the rainfall has been on the average up to the normal amount for the week, for while four of the meteorological divisions received amounts considerably in excess of the average, only three divisions received a slightly deficient rainfall.

In the Chutia Nagpur division the excess rainfall amounted to 50 per cent. of the normal, and the excess appeared to be general in most districts. In North Behar on the average the excess was nearly 60 per cent. of the normal, but it was decidedly unequally distributed, for the Purneah district received rather less rain than the average amount. South-West Rengal on the average received about 40 per cent. in excess of the normal, but in this division some of the stations in the Nuddea district are behind the average. In South Behar the excess rainfall averaged about 24 per cent. of the normal, but the excess was well distributed. Of the three divisions which received less than the normal rainfall, North Bengal showed a deficit of about 13 per cent, and this deficiency was specially marked in the Rungpore district, for the two stations, Rungpore and Kurigram, registered only about three-fourths of the normal amount, while the Pubna district also had a decidedly diminished rainfall. In East Bengal the deficiency amounted to about 12 per cent, but it was fairly equally distributed, while in Orissa the heaviest deficit of about 35 per cent. occurred. The above table, however, shows that in all divisions the number of rainy days during the week was fully up to the average, so that the deficiency of rain in these three divisions was probably due to the lightness of the rain showers themselves, and not to want of seasonable weather. The last two columns of the same table also show that the rainfall over the whole province, since the 15th of May, is fairly well up to date, for in only two divisions (the North and East Bengal is the amount of rain recorded at all below the average for this period.

Saturday, 28th July .- Pressure increased over the whole Province during the previous 24 hours. The increase was large in Bengal (more especially in South Bengal) and Orissa, and moderate in Chutia Nagpur and Behar. Pressure was still below the average by small amounts, ranging from '02" at Sauger Island to '09" at False Point. The slight depression which was on the 27th instant in the Midnapore and adjacent districts passed westward into the Central Provinces or the southerly districts of Chutia Nagpur. perature had changed very slightly. The mean temperature of the past 24 hours was 4° below the average in Orissa, 1° above it in East and South-West Bengal, 2½° above it in North Behar, and nearly 4° in excess at Patna. Winds were lighter again at the head of the Bay. They had shifted round with the westerly advance of the depression into east and south-east in Behar and Chutia Nagpur, excepting in Orissa, where winds were from the south-west. Winds were from directions between south and east throughout the Province. Humidity was again greater in East Bengal. It was lowest in North Bengal and Behar, where the rainfall was scanty. The cloud amount was less, more especially in South Bohar, at several stations of which the sky was almost free from cloud. Light, but general rain fell over the greater part of the Province, except in Orissa and North Bengal, where it was somewhat irregularly distributed. The amounts in most cases did not exceed half an inch, though falls of over 2 inches occurred at Chupra, Gya, and Chyebassa. The divisions which received least rainfall were Orissa, North Bengal, and some parts of South-West Bengal.

Sunday, 29th July. - Pressure again increased over the whole Province, the increase being greatest in Orissa and in South-West Bengal. Pressure was slightly above the average of the day at several stations, but was still below it in South-West Bengal, Behar, and Chutia Nagpur. The baric gradients over the Bay were in consequence of these changes smaller than they had been for some days. Temperature had not altered much since the previous day. It was, however, slightly higher in Orissa and in Behar, where Patna to-day registered a maximum temperature of 94 4° Winds had altered little in direction. but were generally weaker, more especially at the head of the Bay and in South Bengal. They were drawing round again to south-west in South-West Bengal. Humidity had decreased in Orissa and at Saugor Island The sky was overcast, or thickly clouded in all parts of the Province except North Behar, the western districts of which, as represented by Motihari, were almost free from cloud. Rain was less general than on the previous day. In Orissa, in South West Bengal, and North Behar local showers only were reported; in North Bengal, South Behar, and Chutia Nagpur rain was more general; and in East Bengal rain fell at almost every reporting station, and in many cases in considerable quantity. Chittagorg reported 321 inches, Hazaribagh 34 inches and Jehanabad in the Gyadistrict 499 inches.

Monday, 30th July. - Pressure decreased over the Province, except in Chutis Nagpur, South Behar, and locally at two or three stations in Bengal and Orissa. The changes were small and generally unimportant. Pressure was, however, relatively low in East Bengal and North Behar. It varied from the normal of the day by small amounts only. Temperature had increased and was above the normal, except at Chittagong and in Orissa. The mean temperature of the past 24 hours was from 1° to 3° above the average in Bengal, Behar, and Chutia Nagpur. Winds were slightly stronger again at the head of the Bay. There was a strong westerly element in the wind direction in South Behar, Chutia Nagpur, and South-West Bengal. Winds were south-easterly to southerly in East Bengal, south-westerly in South-West Bengal, easterly in North Bengal and North Behar, and north-westerly to westerly in South Behar and Chutia Nagpur. This change accompanied a slight depression of the barometer in Bengal at Dacea. Humidity increased in East Bengal. The air was unusually dry in Orissa. The sky was clouded over in South-West and East Bengal, and also at several stations in South Behar and in Chutia Nagpur. The general and somewhat heavy rainfull which had commenced on the 29th in Eastern Bengal, to-day extended over the whole Province, except in Orissa and some parts of North Bengal. The rainfull was very heavy in Eastern Bengal, in the Darjeeling district and in the southern districts of South-West Bengal; Buxar reported 4-18 inches, and Siliguri 3-65 inches, while several stations received between two and three inches of rain.

Tuesday, 31st July.—Pressure decreased briskly over the Province. The fall of the barometer was greatest in East and North Bengal, and was least in Orissa, where pressure was still slightly above the average. It was again below the normal of the day by amounts ranging from '01" at Saugor Island to '12" at Dacea. Pressure was low over the greater part of Central Bengal, but was apparently lowest in the immediate neighbourhood of Dacea. Temperature again fell with the increased rainfall at most stations, but the mean temperature of the previous 24 hours was slightly above the average in Orissa and North Behar, and also at Patna. Winds were mainly determined by the barometric depression in East and Central Bengal. They were of moderate intensity at the head of the Bay, and were slightly stronger in South Bengal. They were south-westerly in North Orissa and South-West Bengal, south-easterly in East Bengal, easterly to north-easterly in North Behar, and westerly over the greater part of Behar. They thus gave eyelonic circulation of the air over the Province. The air was much damper in every part of the Province, and was almost saturated at the majority of the stations. The sky was overcast over the whole of the Province with the exception of a small part of Central Bengal represented by Rampore Beauleah. The heavy rainfall noticed in the report of the 30th instant continued over the Province. It was particularly heavy in Eastern and in South-West Bengal, in the latter district the average fall at each station was nearly two inches. Busserhaut to-day reported the large amount of 5.68 inches, Satkhira (Khoolna district) 4.28 inches, and Moonshegunge and Naraingunge each 4.62 inches.

Wednesday, 1st August.—Pressure decreased in Orissa, South-West Bengal, and Chutia Nagpur, and increased over the rest of the Province. The changes were generally small, the largest occurring at Dacca and Chupra, where the barometer had risen rather rapidly. Pressure was lowest in Central Bengal as was indicated by the barometric readings at Calcutta, Burdwan, Rampore Beauleah, and Bhagulpore. There was, however, no definite centre of minimum pressure. Pressure was below the normal at all stations, except Cuttack, by amounts ranging from '01" at False Point to '07" at Burdwan. Temperature again decreased with the continued rainfall, and was below the average at all stations except Durbhanga. The mean temperature of the past 24 hours was 4½° in defect in Orissa, 3½° in Central Bengal, and from 1° to 5° over the greater part of Behar and Chutia Nagpur. Moderately strong monsoon winds charged with moisture were blowing across the Bengal coast. The winds in Bengal indicated general cylonic circulation round the area of depression in Central Bengal. Winds were north-westerly in South Behar and Chutia Nagpur, westerly in Orissa, south-westerly in South West Bengal, southerly to south-westerly in East Bengal, and easterly to north-easterly in North Bengal and North Behar. They were generally in excess of their normal strength. The air was very humid throughout the Province, and was almost saturated in South-West and East Bengal, Chutia Nagpur, and near the hills in North Bengal. The sky was overcast at the great majority of stations. The cloud amount was less in the central districts of North Bengal than elsewhere. Very general rain again fell over the whole Province. It was very heavy over the greater part of the area, and large amounts fell in Eastern and South-West Bengal, especially in the Midnapore, Beerbhoom and Nuddea districts. The largest amounts reported were Beerbhoom Soory 8 17 inches, Tumlook 5 5 inches, and Ranaghat 5 45 inches.

Thursday, 2nd Angus'.—Pressure increased in Bengal and Orissa, but decreased in Behar and Chutia Nagpur. The rise of the barometer was moderately large in South Rengal. The full was greate t at Hazaribagh, where the barometer was lowest. The depression of the past three days had again travelled westwards, and now apparently extended over the southern districts of Chutia Nagpur. Temperature was below the average at all stations except Patna. The mean temperature of the past 24 hours was 2° in defect in Orissa, 5° in Central Bengal, 2½° in East Bengal, 1° in North Behar, and 4° in Chutia Nagpur. Winds altered considerably over the western half of the Province in consequence of the westeward movement of the large, but shallow, barometric depression. Southerly to southwesterly winds prevailed to-day in Orissa and South-West Bengal, south-easterly winds in East and North Bengal, and easterly winds in Behar and Chutia Nagpur. Winds were somewhat strenger at the head of the Bay, and the directions throughout the Province were such as usually prevail when the Bay of Bengal branch of the monsoon current is fully established over the whole Province. Humidity had increased in Orissa, and to a less extent over the remainder of the Province except Chutia Nagpur and the Darjeeling hills, where the air was almost saturated. Sky was much less clouded to-day, and was overcast at only a few of the reporting stations.

The heavy rainfall of the previous days began to diminish, and it became to-day less general, and smaller in quantity. The heaviest rainfall occurred in the South Behar divi-sion, where it was very general; the Shahabad and Gya districts in particular received an average from an inch to one and-a-half inches. Chutia Nagpur also received general rain, moderate to heavy in amount. In South-West and East Bengal rain was also general, though it did not average more than half an inch over the whole area, while in Northern Bengal the rainfall was less general, though heavy at two or three centres. In Orissa (with the exception of one station) the rainfall was scanty, but the North Behar division was almost rainless. The following were the heaviest amounts recorded:—Balcorghat, (Dinage-pore district) 4.77 inches, Dehree 3.00 inches, Sasseram 2.08 inches, Darjeeling 2.11 inches, Palamow 2.32 inches, and Baripodah, in the Balasore district, 2.38 inches.

Friday, 3rd August.—Pressure increased slightly at all stations. The relative distribution of pressure was thus unaltered. The variations from the average pressure for the day were small and of little importance, except in South Behar and Chutia Nagpur, where pressure was deficient by amounts which averaged '04". Temperature increased during the previous 24 hours, and was generally slightly above the average, except in Central Bengal and at Gya, where it was 3° below it. Winds were similar to those of the 2nd instant, except that they were lighter and less steady. They were southerly to southwesterly in Orissa and South-West Bengal, south-easterly in East and North Bengal, and easterly to north-easterly in Behar. The air was drier in South Behar and was unusually dry in North Bengal, The sky became somewhat more clouded, especially in South Behar and

Rain was again less general and in smaller quantity than on the 2nd instant. The Eastern Bengal division was the only one in which the fall was general, though in all cases the amounts were small; in South-West Bengal and in North Behar the rainfall was somewhat less general, light local showers only being reported in most instances. In Northern Bengal there was light general rain except in the Rungpore and Cooch Behar Northern Bengal there was light general rain except in the nungpore and Cooch Benar districts, while in South Behar there was also light general rain, which did not, however, extend to the Patna, Monghyr and South Bhagulpore districts. In Orissa the returns which have been received show that the rainfall was confined to a few local showers, while in Chutia Nagpur rain fell at almost every station, the amounts, however, being in most

cases somewhat small.

The only heavy falls reported to-day were Jehanabad, in the Hooghly district, 2:48 inches and Buxa 1.50 inches.

MEMORANDA

The subjoined table shows—
1. That during the week ending 21st July 1883, the mean birth and death-rates in the first class Municipalities in Bengal amounted to 18.3 and 28.4 per 1.000 of population. respectively, as opposed to 17.3 and 28.9 per 1,000, respectively, in the preceding week ending 14th July

2. That the under-mentioned Municipalities registered the highest proportions of

births and deaths :-

	Births.			Death	8.	
		\$1	ntio per mille.			Ratio per mille.
Gya			66.9	Gya		 91.5
Bhagulpore		0 0	29.0	Poori		 68.5
Burdwan			25.9	Ranaghut		 53.9
Durbhanga			25.2	Mozuiferpore		 41.4
				Patna	0.0	 36 7
				Burdwan		 33 6
				Monghyr		30.7
				Bhagulpore		 27 1

3. That the mean mortality from the different causes, mentioned in the table, stood as follows :-

					ille during the onding-
Cholera			 	Zist July. 5.6	14th July. 6.3
Small-pox			 	.3	*4
Fever			 	11.4	10.3
Bowel compl	aints	0 0		4.3	4.4
Injury		• •	 	•4	.7
Other causes			 	6.4	68

indicating that, in comparison with the preceding week, there was an abatement of mortality from cholera with a rise in fatality from fever, the death-rates from the other diseases

exhibiting only fractional differences.

4. That while small-pox and fever prevailed with normal severity in all the Muncipalities (excepting in Bhagulpore, where 2.7 per 1,000 of the population died from the former disease, and in Ranaghat, in Nuddea, where the mortality from the latter disease stood so high as 47.9 per 1,000), cholera and bowel-complaints proved conspicuously fatal in the following Municipalities :-

Cholera.			\mathcal{B}	owel-compla	ints.	
		Ratio per mille.				Ratio per mille.
Gya		512	Poori			128
Gya Poori		47.1	Chuprah			10.7
Mozufferpore		13.4		-		-4
Monghyr	0 0	7.2				
Midnapore		6.2				

5. That eliminating Buddhists, of whom only one died in the Darjiling Municipality, the death-rates returned by the other Classes or Nationalities were 33 per 1,000 by Christians, 30.6 by Hindus, and 22.9 by Mahomedans.

That the mortality bearing reference to Age ranged as follows:

Ayes.	Ratio per mille.	Ayer.	,	Batio per mille.
Under 1 year	 278.6	50 and under 60 years		189
1 and under 5 years	52.4	30 and under 40 ,,		18.3
60 years and upwards	39.1	15 and under 20 ,,		172
5 and under 10 years	 24:1	40 and under 50 ,,		16.1
20 and under 30 ,,	18:0	10 and under 15 ,,	4 0	14.4

F. W. A. DEFABECK.

The 6th August 1883.

Officiating Sanitary Commissioner for Bengal.

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Marche March	Bright and Charles Francisco Francis					,anaisainit)	Hindus.	,enabomorlast.	-ataivibinita.	consists refit	Christians.	Hindus.					5 and under to	el roban bus (1)	Ok Tabau been &!			Od ushin bin ou	Treatment.	-qu bus suit of	("nuler 1 years.	.esaev & read in bras I	of nahan arisov,	Acteur	"M FAIREY,"		'Esmok	yours.		60 and apwards.
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Services and the selection of the services of the services and the services of the services of the services and the services of the services o	Company Comp						60	p-1	:	:	:	198				93	:	:	-	4	63	ŧ	pad	01	0.041	18	***	:	15.5		1.53	*	57	F
Secretary Control of Secretary	Section Sect			hinsumh		:	100	60	:		1		6.0	1		16			}	01	:	;	;	94	9.053	9.56	6.03	9.88	2	13.6	:		2 :	4
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Control No.	Besite Services Besite Services Briggs			:	:	:	***	greet	:	;	;		0.9	:	-	:	60	_	94	63	04	:	:	-	:	:	34.4	13.1	10	2.15	14.0	:	1	37.5
Secretary Secr	Automatory Aut	iles	Ranaghat	***		**	100	04	:	1	:		77.99				:	:	:	pel	;	04	-	pha	9.709	130.6			-	31.2		9.808	71.8	216
Fig. 1. State of the control of the	Paritings Relation		Santipore		:	2 2	4	-	:	:	:		100		-	:	_	1	:	1	:	:	93	-	*	:	15.0	B.112	:	:	:	*	93.9	148
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Here the control of t	Decision		Rampore Beau	leah	2	;	1	1	:	:	;	-		-		pia	:	1	:	:		:	-	-		***	2	* · · · · · · · · · · · · · · · · · · ·	0014		-	*		000000
Fig. 1. The control of the control o		ling	Darjiling	-:	0	:	-	;	-	:	:	1.18	90	103	-	-		;	1	:	:	:	:	:		161.7			4	701.00		*	:	
F (Missentigno)	National		r Daeca .	:	1	:	17	19	ŧ	:	:		1.2						-	4	4	40	1	103	91 90 30	91 50	47.5	19.6	7.7	23.6	17.9	8.93	11.0	28
Fig. 1. Consistence of the consi	Combish Combish Cambish Cambis	The state of the s	(Nersingan)	:	:	1	04	:	:	:	4.8.4	16.4		:		:		1	i	;	1	;	6 od	:		0.000	\$19.4	* * * * * * * * * * * * * * * * * * * *	***	***	:	994	9.98	P . 00 o 4
Combish Arrange Combish 1	Complete	שניים איייי	Chittageong	***		1	:	40	:	1	ě		0.0	-			:	:	dorq	:	-		ant	-	+ 12 Gr	9.50	:	:	9.5	i	15.6	100.10	2	2
Fig. 1. Fig. 1	Prime City	rah	Comillah		0 0	i	49	4	1	* *			1.8			-	:	:	95	:	-	1	:	1	175.1	8.00	:		150.0	:	1.07	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.00	***************************************
4. F.	Chapter Chap	*	Potres City	:	:	i	8	83	:	ī	:		97.00	:	-	85	100	Pro-	60	14	13	30		40	6.138	65.00	60	55.23	16.0	2.9	947	37.6	147	包
Arreth Arreth<	Recommendation Monthstrate	1075	Gya.	:	0 0	i	113	55	:	Ē	:		00	:		pre-	1 14	10	E-o	**	94	11	94	13	786.9	130.1	1.901	10.00	10	6.16	49.0	88.8	150	121
Montherpore	No	paq	Arrah	1	*	:	0.	4	i	:	:		an)	1	:	41	4	01		-	00	:		-		2.88	60.2	21.2	10.0	2	16.2	000		97
Purphenting	Durbharga	ferpore	Mozufferpore	:		÷	81	21	1	Ī	į		0.0			200 200	-	80	:	80	•	-	4	91	6.901	341-5	2.99	1.00	***	19.2		10.4	1.79	\$
Total Chuyenh 1 2 1 <th< td=""><td>Particle Co. Santaray Commissioner Ports. </td><td>- udus</td><td>Durbbangs</td><td>3.</td><td>1</td><td>ž</td><td>51</td><td>10</td><td>:</td><td>:</td><td></td><td></td><td>90</td><td>:</td><td></td><td></td><td>93</td><td>_</td><td>:</td><td>94</td><td>04</td><td>-</td><td>-</td><td>:</td><td>939.0</td><td>2.46</td><td>19.0</td><td>18.4</td><td>*</td><td>90</td><td>52</td><td>2.0</td><td>31.9</td><td></td></th<>	Particle Co. Santaray Commissioner Ports.	- udus	Durbbangs	3.	1	ž	51	10	:	:			90	:			93	_	:	94	04	-	-	:	939.0	2.46	19.0	18.4	*	90	52	2.0	31.9	
Relation Monthly <	Monetyre	60 4	Chuprah	:	•	:	22	00	:	i		-	3.0		_	98	-		00	04	1	1	:	00	114.0	2.00	44.2	10.1	128-1	10.0	40	60		8
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Foot	Process	137	Monghyr			:	38	•	;	:	:		ret	2		- Bra	40		01	6	00	60	ŧ	60	265.1	2.02	90	99.09	27.2	91.70	17.8	2.9%	***************************************	
Poort	Poor	ů	Purpeals	:	-	0 0	00	-	i	Ī	i		25	2			:	i	1	ź	1	3	1	ged	183.7	0.59	:	:	***************************************	1	:	2		98
7 846 172 1 330 306 219 248 163 111 61 32 88 89 61 50 85 61 2786 854 341 154 172 107 167 167 187	TOTAL 7 546 172 1 2570 2076 2179 2473 1623 1311 611 323 329 613 700 835 611 2078 6274 3473 1372 1379 1873 1879 1873 1871 1872 1879 1873 1879 1879 1879 1879 1879 1879 1879 1879	•	Poor.	•		:	23	:	;	:	-			-	_			ged	65	60	62	40	10	01	825.3	9.68	8.4	92	40 FE	20.00	10 BB	130.6	117.8	88
	E. W. A.			TOTA	;	100	910	372	-	1	-				-		1			8	12	98	13	5	278'6	7.59	24.1	1878	17.2	18.9	18.3	16.1	18.0	3

Results of the Meteorological Observations taken at the Alipore Observatory from 29th July to 4th August 1883.

-0			bright	metre	T	MPNRA	TURB		B	TOROM	HTHY		Wind			•
Month	Date.	Naziwam in sun	Number of boars of bright sunshine.	Mesn pressure barometre at 32 Fahr.	Mean	Maximum.	Range.	Ninimam.	Mean wet bulb.	Vapour tension.	Dew point	Hamidity.	Prevailing direction	Miles recorded	Itain.	Whather.
1888		6		Inche.	E	÷	***	Supp.	Ö	luctice	\in	°/0			Inches	
July	29th	140.8	8	29 513	88.0	87 3	8.8	78.5	79.8	0.961	77.7	84	SW and calm	39	0.20	Chiefly aloudy, o,
	80th	147 8	8	·600	68*4	88.0	88	79'8	80'7	1 011	79.6	88	sw	170	0 47	Cloudy, o, g, p,
19	Slet	118.6	Nil	*467	81.3	85.1	64	78:7	75 1	0.976	78 5	91	S by W and SW	192	1.0	Cloudy, o, g, d, 1
Aug.	1at	108 8	884	'455	78-9	81.8	68	75.2	70.9	.803	70 1	91	S₩	236	1.71	Cloudy, o, g, o
19	Snd	144.6		*800	81.6	86.1	10 4	75'7	78'0	1918	76.5	85	SW by S and SSW	180	0.09	Partially cloud;
. 20	8rd	151-0	6	*820	83 5	87:4	8.3	79.2	79.9	9.5	78.6	85	SW and SoW	184	0.10	Chiefly cloudy, o
"	4th	189:9	9	'526	85:0	B814	7.3	81.3	81.4	1.026	80.0	85	SW and SSW	164	Nil	Partially cloudy.

			TELCHICAL.	
	The mean pressure of the seven days		29.497	
	The average pressure of the corresponding period for 24 years, S G Office	***	29.573	
	The total number of hours of bright sunshine of the seven days		29	
			Θ	
	The mean temperature of the seven days		82.4	
	The average temperature of the corresponding period for 24 years, S. G. Office		82.9	
	The extreme variation of temperature during the seven days		13.2	
100	The maximum temperature during the seven days	4 + 1	88.4	
			Milos.	
	The highest velocity of the wind in one hour during the seven days		18	
			15a.	
	The highest pressure of the wind on one square foot during the seven days	No	t measur	eable
			3/0	
	The mean relative humidity during the seven days	0.4	87	
	The average relative humidity of the corresponding period for 24 years, S G Off	cce	86	

The average fall of the corresponding period for 24 years. S G Office ... 8.70
The total fall from lat January to 4th August 1883 ... 86.08
The average fall of the corresponding period for 24 years, S. G. Office ... 86.76
The mean presure, temperature &c. are deducted from the traces of the Bayograph and Thermore.

The mean presure, temperature &c are deducted from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are varified and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86 formerly at the Surveyor-General's Office

The hygrometic elements are obtained from Tables III, IV and V of the official tables computed in the Meteorological Office, and based on Regunaults modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

The total fall of rain from 29th July to 4th August 1883

o overcast, p passing temporary showers, t thunder, d drizzling rain, lr lightning reflection, < lighting, g gloomy.

ALEXANDER PROLER,

For Meteorological Reporter to the Government of India.

Inches

4.77

Mateorologi A. Office. India, The 6th August 1858. Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 29th July to 4th August 1883.

					Truppa	ATURE.			Нтевомя	ITET.		
Mostr.		Date.		Mean.	Karimun.	Range.	Ninimam.	Mean wet builb.	Vapour tearios.	Dew point.	Hamidity.	Rain
1888.				0	0	0	0	0	Inches.	0	%	Inches
July		99th	001	82.4	87.8	8 2	79.1	79.0	946	77.6	9.5	0.66
20	+0+	Both		88.4	88.3	88	80.0	81.0	1 097	80.0	89	0.78
90	994	Slat	40-	80.8	87.6	88	78.8	79·1 76·0	*978 *885	78·6	96 96	2:44
Lugust	664	lat	9.00	76'5 80'4	82*8	7:0	760	78.1	920	76.7	86	0.18
00	0.0 *	2nd 3rd	0.04	83.8	88.8	9:0	79.8	80'0	968	78 8	81	Nil.
0.0	000	4th	040	848	89.8	8.0	81.8	81.7	1.002	79.6	68	84 98.

			0
The mean temperature of the seven days		400	81.7
The extreme variation of temperature during the seven days	m-40-n	***	14.8
The maximum temperature during the seven days	101	9 9 8	89.8
			°/0
The mean relative humidity during the seven days			88
			Inches
The total fall of rain from 29th July to 4th August 1883			5.60

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METROBOLOGICAL OFFICE, INDIA,

The 6th August 1888.

ALEXANDER PEDLER,
For Meteorological Reporter to the Gout. of India.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing the total amount of traffic and tolls on the Circular and Eastern Canals and Nuddea

Number		Arrwoxii	MATH.	TORNAGE C	P BOATS.	
of bosts.	NATURE OF CARGO.	Weight of cargo,	Value of enrico.	Maunda.	Tons.	Tolinge.
J.	LOCAL TRAPPIC (PRIVATE).	Mds.	Re.			Rs. A.
15	Limestone	22,100	4,400	47,625	1,700	416 11
19	Earthenware	2.100	450	4,600	164	23 4
72 .	Lime	62.600	50,400	1,34,725	4,811	1,178 13
648	Firewood	2,16,000	72,000	4,42,025	15,786	3,315 3
9	Brass	500	10,000	1,150	41	10 1
230	Jute	1,26,500	2,53,000	2,67,750	9,560	2,342 13
20	Mats	3,400	6,200	7,575	270	56 14
8	Paddy	2,000	2,000	4,225	158	36 15
883	Rice	3,33,500	8,33,750	7,01,425	25,050	6,137 7
98	Wheat Other cereals	19,700	1,250 29,500	975 54,500	34	8 8
24	Linseed	5,200	15,600	10,050	1,946 358	476 14
20	Oil-cake	5,500	6,900	11,975	427	87 15
46	Townite.	1,500	3,000	3,875	138	104 12 33 14
70	Vegetables	5,000	10,500	10,550	376	33 14 92 6
6	Tobacco	1,575	9,600	4,700	167	41 2
50	Spices	7,200	21,600	14,900	532	130 6
2	Turmeric	100	300	400	14	3 8
1	Cocoanut	100	50	200	7	1 12
48	Grass for cattle	15,000	7,500	38,475	1,373	336 10
24	Straw	4,200	2,100	9,325	333	81 9
87	Beteluuts	22,000	1,76,000	46,425	1,657	406 3
54	Sugar, unrefined	8,200	65,600	18,450	658	161 7
44	Jaggery .	11,400	19,500	25,000	892	217 14
2	Cattle	300	300	650	23	5 11
4	Hides	100	2,000	400	14	3 8
12	Bones	2,000	1,450	4.100	145	34 2
15	Dry fish	500	2,000	1,575	56	13 12
242	Coal	1,80,000 3,000	40,000	2,97,775	10,635	1,852 10
6	Ghooting Sand	4,000	1,250 1,000	5,000 6,375	179	18 12
8	Tmon	2,500	500	4,050	228 145	46 2
11	Mantand and	2,900	8,000	5,875	210	35 7 51 6
1	Mustard oil	50	550	100	3	0 6
3	Other oils	500	2,500	1,050	37	9 8
193	Salt	70,500	22,900	1,52,625	5,451	1,239 15
	Total					-
2,978	Total of same month	7,50,926	16,82,750	23,40,475	83,578	19,014 3
2,121	last year. Miscellaneous.		10,02,101		51,988	18,244 3
1,796	Shells, fish, planks, tamarind, rags, goal-	1,46,600	2,03,000	6,10,550	21,805	3,798 11
	patta, onion, betel					
	leaves, wooden-pipe,					
	bablawood, bamboos,		100			1
	cane, butter and bran,	-				
	passenger, empty, tiles,					
	and planks, &c.	. 1				
,144	Boats under 25 maunds	*****	00000	****		286 0
	Demurrage .	*****	*****	*****	*****	236 0
,940	Total	1,46,600	2,03,000	6,10,550	21,805	4,320 11
,869	Total of same month last year.	42,665	84,575	1,86,350	6,655	1,744 10
	0 1111	12,88,825	18,85,750	29,51,025	1,05,383	23,334 14
,918	Grand total	12,00,020	10,00,700	20,01,020	1,00,000	20,007 12

Unrecovered belance on the lat of the month
Amount of tellage for the month...

24,834 13 6 23,983 3 6 Amount oradited in the accounts for the month Balance at the end of the month 851 10 0

TOLLY'S	NULLAH.
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Warmhau		APPROX	IDBATE.	TONNAGE OF	BOATS.		
Number of boats. 172 8 5 16 4 256 1,274 28 79 17 4 8 12 165 15 14 141 2 79 56 5 7 3 12 104 128 56 99 13 12 2 16 16 2 16 2 16 2 16 2,812	NATURE OF CARGO.	Weight of ourso.	Value of cargo.	Maunds,	Tons.	Tollage,	37)
	LOCAL TRAFFIC	M ds.	1/8.			Rs. A.	1
	(PRIVATE).	317 042.					
172	Firewood	55,500	13,875	1,05,225	3,758	789 8	}
	Brass	130	1,030	275	10	2 7	
	Cotton	700	2,800	2,275	81	19 14	
	Jute	2.000	6,900	3 925	139	25 4	
	Mats	400	125	750	26	6 8	
256	Paddy	38,710	29.210	79,700	2,846	688 2	1
1,274	Rice	1,55,683	3,28,100	2,79,100	9,967	2,224 11	
	Other cereals	7.006	890	13,625	486	119 4	
	Mustard-seed	18,210	35,375	42,250	1,223	215 15	
	Tobacco	2,468	5,150	5,825	207	22 14	
	Spices	135	1,050	275	10	2 8	3
	Grass for cattle	700	70	1,225	43	10 11	
	Do. for thatching	4,000	300	7,950	284	69. 9	
	Straw	14,185	5,200	32,375	1,155	211 2	
	Betelnuts	6,016	30,150	11,750	420 61	102 13	
	Sugar, unrefined	9 8 6 19,725	8,760 58,750	+,725 39,875		15 6 282 10	
	Jaggery Cattle	75	400	150	1,423	202 10 l 5	
	Coal	30,670	15,016	29,975	1.070	258 1	
	Harthan mann	3,025	860	8,300	260	33 8	
	Limo	275	275	825	29	8 8	
	Mustard oil	123	1,360	175	6	1 12	
	Turmeric	70	300	75	8	0 12	
	Cocoanut	180	75	325	11	3 3	
104	Vegetables	11,260	22,020	22,725	812	122 12	
128	Falt	17,8 8	51,900	69,300	2,474	484 4	
	Roadstone	29,010	550	55,550	1,983	306 8	3
	Bricks	26.425	50	47,900	1,782	219 1	
	Tiles	3,175	40	4,800	171	16 8	
	Sand	5,250	500	11,600	414	43 5	
2	Timber	95	250	200	17	0 13	
5/1	Iron	800	8.000	625	9	5 7	
B	Piece-goods (European)	10.	3,000	275	9	2 6	
	Other oils	890 200	1,600. 2,000	5,500 400	196	20 10	
	Tomica	1,990	1,990	2,725	18	. 3 8	
							_
_	Total	4,57,345	6,33,511	8,89,550	31,505	6,355 15	-
3,326	Total of same month last year. MISCELLANEOUS.	5,93,862	7,39,548	11,98,075	42,682	9,040 14	
,637	Empty, passenger, gol- patta, shell, planks, fishes, tamarind, fowls,	52,025	95,200	5,17,225	13,471	2,950 1	
	ware, chirah, &c., fish, tile, brick-dust.			. "		-2	
546	Boats under 25 maunds			2.000	*****	186 8	3
***	Demurrage			*****		76 13	3
,183	Total	52,025	95,200	5,17,225	18,471	8,163 7	,
,295	Total of same month last year.	42,675	67,360	8,11,750	28,990	4,698 5	
,995	Grand total	5,09,370	7,28,711	14,06,775	49,976	9,519	3
,621	Grand total of same	6,36,537	8,06,908	20,09,825	71,672	13,739 4	
	month last year.	-,0.,	0,00,000	20,00,000	1,012	20,100 7	

Unrecovered balance on the 1st of the month	• • •	***	262	1	3	
Amount of tollage for the month	* * *		9,519	6	6	
Amount 31/4 2 2 4 42	Tota	***	9,781 9,657	7	9	
Amount credited in the accounts for the month	• • •	***	9,657	9	9	
Balance at the end of the	month	***	123	14	0	

(I).-Jellinghee River.

		APPROXI	AATH.	TONNAGE OF	BOATS.			
Number of botss.	NATURE OF CARGO.	Weight of cargo.	Value of cargo.	Maunds.	Tons.	Tollage		
	Local Traefic (Private).	Mds.	Rs.			Rs.	Α.	B
£ 54			0.105	0.050	000			
18	Coal	4,250	2,125	8,350	298	41		(
8	Lime	2,275	2,843	4,525	161	22		
4	Brass	200	8,000	475	16 57		12	
4	Gunny (Indian)	800	8,000	1,600		16	0	
84	Jute	22,300	44,600	42,200	1,507	422	0	
. 48	Paddy	9,100	9,100	17,875	638	134	1	
59	Rice	4,400	8,800	8,350	298	62		
159	Wheat	46,200	92,400	91,475	3,266	686	1	
15	Gram	4,450	6,675	8,750	312		10	
81	Other cereals	7,575	$\begin{array}{c c} 15,150 \\ 2,250 \end{array}$	14,925	533		15	
2	Linseed	575	2.875	1,575	56		13	
3	Mustard-seed			1,300	46		12	
5	Other oils .	325	2,600	700 275	25	7	0	
2	Oil-oake ·	150	150		9		12	
2	Tobacco	250	750	550	19	5	8	
1	Grass for cattle	250	62	475	16	2	6	
176	Salt	29,500	88,500	59,400	2,121	594	0	
1	Hides	200	2,000	450	16	4	8	
1	Bones	150	37	275	9	1	6	
22	Ghee	2,575	77,250	6,200	221	62	0	
381	Empty	14150	1 12 000	5,20,225	18,579	650	4	
91	Miscellaneous	14,150	1,13,200.	28,075	1,002	280	12	
,105	Total	1,50,425	4,87,367	8,18,025	29,205	3,199	8	
,031	Total of same month	1,27,370	5,23,295	6,39,800	22,840	2,753	14	
	MISCELLANEOUS.							
548	Passenger boats			***	0,0,0 0 0 0	157	8	
0.30	Raft of timber and golebutty.		****		90000	0.	3	
348	Total					167	11	_
-	Total of same month					257	0	-
492	last year.	0 6 9 4 6 0	****		*****	201	0	
1,653	Grand total	1,50,425	4,87,367	8,18,025	29,205	3,357	3	
1,523	Grand total of same month last year.	1,27,370	5,23,295	6,39,800	22,840	3,011	6	

Name and Advanced on the Park State of the Park		Rs.	A.	P.
Unrecovered balance on the 1st of the month Amount of tollage for the month		3,357	3	6
Total Amount credited in the accounts for the month		3,357 3,357	3	6
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Balance at the end of the month		••••	••	۰

(II). - Matabhanga River.

	BOATS.	TORRAGE OF	ATE.	AFFROXIM		
Tolinge.	Tons.	Maunds.	Value of cargo.	Waight of oargo.	NATURE OF CARGO.	Number of beats.
Rs. A.			Rs.	Mds.	Local Traffic (Private).	. 1
8 8	62	1,700	185	740	Coal	6
6 0	88	2,400	1,200	1,200	Limestone	8
0 4	7	200	20	20	Earthenware	8
2 7	73	1,975	262	1,050	Sand	5
13 4	98	2,650	1,855	1,855	Lime	4
21 10	160	4,325	404	1,617	Firewood	7
2 4	8	225	272	68	Iron	1
3 4	12	325	250	50	Gunny (Indian)	1
79 0	292	7,900	4,514	2,257	Jute	15
5 0	18	500	659	250	Mats	2
268 5	1,325	35,775	16,357	16,857	Paddy	88
2 4	11	300	333	148	Rice	3
322 11	1,593	43,025	39,022	15,609	Wheat	52
108 6	535	14,450	21,073	12,968	Gram	24
181 2	894	24,150	37,978	21,702	Other cereals	48
98 15	463	12,525	20,388	6,041	Linseed	17
2 10	12	350	1,402	330	Mustard-seed	1
11 8	42	1,150	1,313	101	Other oils	2
38 8	142	3,850	1,161	1,161	Oil-cake	18
8 4	40	1,100	390	390	Vegetables	10
14 0	51	1,400	288	72	Tobacco	5
16 0	59	1,600	184	23	Spices	2
45 8	168	4,550	5,887	1,570	Turmeric	12°
0 8	1	50	3	3	Cocoanut	1
2 12	10	275	623	89	Betelnuts	2
48 8	179	4,850	4,641	1,547	Jaggery	24
90 4	334	9,025	14,475	4,825	Salt	23
	116	3,150	15,780	1,578	Miccellancous	15
			20,100		Empty	208
195 5		50	80	20	The Gab	1
0 8	1				-	
1,623 15	6,794	1,83,825	1,90,990	93,641	Total	603
626 15	4,207	1,13,925	54,341	36,734	Total of same month	823
	,				last year. Miscellaneous.	
-		1	60	60	Raft of timber { D. 2 }	1
0 15		*****	00	50	(0.1)	
88 8	***	*****	10000	000	Passenger .	135
39 7			60	50	Total	186
30 0			425	101	Total of same month last year.	265
1,663_6	6,794	1,83,825	1,91,050	93,691	Grand total	789 .
656 15	4,207	1,13,925	5±,766	36,734	Grand total of same month last year.	588

Unrecovered balance on the 1st of the month Amount of tollage for the month	•••	83 1,663	3	-
Amount credited in the accounts for the month	***	1,746 1,727		
Balance at the end of the month	•••	19	0	9

(III) .- Bagiruthee River.

		APPROXI	MATE.	TORRAGE OF	BOATS.	
fumber of bouts.	NATURE OF CARGO.	Weight of cargo.	Value of ourgo.	Maunda.	Tons.	Tolinge,
	Local Traffic (Private).	Mds.	Rs.			Rs. A. 1
4 2 2 2 2 19 4 9 7 1 11 2 2 30	Coal Earthenware Brass Paddy Rice Wheat Gram Other cereals Linseed Mustard-seed Jaggery Salt Hides Ghee Empty	675 100 450 375 100 9,600 1.775 1,725 2,275 50 30 2,500 200 125	337 25 18,000 375 200 19,200 2,662 3,450 6,825 250 90 7,500 2,000 3,750	1,200 250 1,350 850 200 18,400 8,500 3,375 4,450 125 100 4,900 425 275 24,775	42 8 48 30 7 657 125 120 158 4 3 175 15 9 884	6 0 0 5 13 8 6 6 1 8 185 0 26 4 25 5 33 6 0 15 1 0 4 9 0 4 4 2 12 30 15
110	Miscellaneous	20,730	70,664	65,750	2,341	15 12 355 4
184	Total of same month last year.	30,545	1,17,084	1,04,200	8,714	541 10
308	Miscellaneous. Passenger boats			*****	4 * 4 * * *	111 8
308	Total	•••	••••		•••••	111 8
170	Total of same month last year.		*****	****		58 0
418	Grand total	20,780	70,664	65,750	2,341	466 12
354	Grand total of same month last year.	30,545	1,17,084	1,04,200	3,714	599 10

		- Aria	416.0	4.0
Unrecovered balance on the 1st of the month		100	*****	
Amount of toilage for the month		466	12	6
Total	000	466	12	6
Amount credited in the accounts for the month	***	466	12	6
Balance at the end of the month				

(IV).-Jungypore River.

Number		Arrec	CIMATE.	Tonnage of	BOATS.			
of bouts.	NATURE OF CARGO.	Weight of cargo.	Value of onego,	Maunds.	Топи,	Tolinge.		
	Local Traffic (Private).	Mds.	Rs.			Rs.	Δ.	P.
5 4	Paddy Pulses and gram	150 120		475 225		3	9	0
9	Total	270		700		5	4	U
. 32 3 5	Miscellaneous. Passenger boats, 38 oars Empty ,, Miscellaneous (mixed	81	000 000.00	1,625 225		9 2 2	8 0 4	0 6 0
40	cargo).	81		1,850	****	13	12	6
60	Total of same month last year.					15	8	0
49	· Grand total	351		2,550		19	0	6
70	Grand total of same month last year.		10000	0 0 0 ,	0.5 + 1 + +	15	8	0

MEMORANDUM.

Unrecovered balance on the let of the month
Amount of tollage for the month
Total
Total
Balance at the end of the month

Balance at the end of the month

Rs. A. P.

19 0 6

Total
19 0 6

ABSTRACT.

		Tu	APPIC.	, 1883-84,				T	AFFIC	. 1692-83.		94
	During the	mont	h.	To end of the	nion	th,	During the corr	espoi	nding	To end of the c		made
CIRCULAR AND EASTERN CANALS.	Rs.	A .	₽.	Rs.	▲.	Р.	Rs.	٨.	Ρ.	Re.	٨.	P.
Circular canal Tolly's nullah	0.510		9	23,334 9,519		9	13,988 13,739		0	13,988 13,789		0
Total	32,854	5	3	32,554	5	3	27,728	2	3	27,728	2	3
NUDDEA RIVERS.								-				
I.—Jellinghee river		3	6	3,357	3	6	3,011	6	6	3,011	6	6
II.—Matabhanga river II.—Bhagiruthee river V.—Jungypore river	466	12	6	1,663 466 19	-	6	656 599 15	10 8	0	656 599 15	10	0 0
Total	5 500		0	5,506	7	-0	4,283	7	6	4,283	7	6
GRAND TOTAL	92,000		3	38,360	12	3	32,011	9	9	32,011	9	9

CALCUTTA,

The 2nd August 1883.

C. W. ODLING,

Under-Secretary to the Gort. of Bengul,

Public Works Department.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Beturn of Truffic for week ended 28th July 1883, on 1,509 miles open,

	COACHIN	G TRAFFI	D.		AND MINERAL PPIC.	Other earnings	Total earnings.	TOTAL 7	RUN.	
J. 1	Number of Coaching Passengers receipts,		Weight carried.	Beceipts.	(estimated.)	rotal garnings,	Conching.	Morelina- disc.	Total.	
Transfer of the		Ra.	A. P.	Mdn. v.	Re A. P.	Ra. a. r.	Ra. A. P			
Total traffic for the week	199,245	1,89,878 125	7 0 13 3	10,60,290 0	5,87,084 14 0 389 0 11	17.813 8 8 11 12 11	7.94.776 11 5 526 11 1	69.2248	111,topt	178,834
For provious 3 weeks of half-	621,421	6,34,417	9 0	73,63,406 10	21,72,960 15 1	67,869 10 4	29,55,239 3 1	180,012	457,8321	000,5642
Total for 4 week	807,066	8,14,206	0 0	03,22,005 10	27,60,015 14 0	75,678 0 0	80,50,014 14 0	251 236	210,800	820,1788
COMPARISON.										
Total for corresponding week of provious year per mile of railway correspond-	160,980)	1,71,780	10 8	21,81,090 10	6,29,867 6 11	17,884 6 0	8,19,538 5 6	65,476	124,784	180,200
week of previous year	******	114	0 2	****	418 0 6	11 13 11	543 14 7	*****	1 000000	******
previous year	702,0744	7,98,153	15 11	93,21,110 0	25,79,657 12 8	63,429 13 5	34,26,241 10 0	212,418	800,000	719,517

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for last 14 days of June 1883, on 2081 miles open.

				-													select a stransport to the	
Total traffic for the week	1,370	Ra. 685	A. U	P.	Mds. 23,791	II.	Ra. 7,47 b		р. 0	Rs. 10,000	A. E		Rs. 18,159	A.			434.00	
Or permile of railway	7	8	5	()	115	3	36	2	.53	48	5 1	()	87	13	3	*****	*****	******
For previous week of half-	1,404,134	9,14,840	0	0	76,05,056	0	15,80,900	0	0	43,400	-{}	()	25,46,149	0	0	183.451	225,86%	409,9162
Total for hulf-year	1,465,504	9,13,525	()	0	77.21,847	0	15,97.37 6	()	0	63,409	0	0	25,04,808	()	U.	183,451	285,048 [40%,9142
Companion.															-			
Total for corresponding week of provious year	*****	1.1	0	0	6,320	0	2,417	0	0	12.761	0	9	15,540	0	0	*****	*****	1 000111
Permile of raisway correspond-	******	0	1	0	37	Ü	16	-6	5	7.0	4-1	0	90	18	8	*****		*****
Total to corresponding date of provious year	1,215,677	7,03,883	0	0	66,66,870	0	11,19,212	0	0	43,130	()	0	10,56,215	0	0	151,650	179,8581	534,3134

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week ended 21st July 1883, on 2063 miles open.

6		Ra.	Δ.	P.	Mds.	а.	Ra.	-	. P.	Ka.		. P.	Rs.	4	A. P.			
Total traffic for the week Or per mile of railway	46.860 226	20,103 12d			2,83,093 1,127		43,011			120 0		0	60,80 F		0	7,990}	6,351}	14.353
For previous 2 weeks of bail-	120,031.	62,412	()	()	4,12,887	()	80,542	0	0	1,000	0	0	1,44,048	()	0	15,7201	12,080}	28,600}
Total for 3 weeks	167,731	88,575	0	0	6,45,980	0	1,24,15	0	0	1,789	U	0	2.14,517	0	0	23,5204	19,404	43,012}
COMPARISON.																		
Total for corresponding week	87,645	23,039	0	0	2,40,650	Đ	50,095	0	0	71	()	0	74,703	0	()	5,918	7,1962	13,0191
Per mile of railway correspond-	219	139	6	1	1,401	7	2293	20	6	0	6	8	434	15	8	*****	****	
Total to corresponding date of	145,862	63,591	0	0	7,11,840	0	1,26,571	0	0	630	0	0	2,10,701	0	()	18,6814	22,3961	41,290

Includes Rs. 157 on account of Revenue steres.

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for week anded 28th July 1883, on 2003 miles open.

		Ra.	4. P		Mds.	8.	Rn.	Α.	P.	Rn.	Α.	P.	R4. A.	Ľ,			
Total traffe for the week	50 ,630 245	27.927 135	0 0		2,21,200 1,085		41,960 199			100	0 8	0 28	09,293 0 335 2	5		6,399	1-6,251
For provious three weeks of half-	167,731	88,575	0 ()	6,45,980	0	1,21,103	0	0	1,7%0	0	0	2,14,517 0	- 11	23,5203	19,691%	43,0121
Total for four wooks	218,361	1,10,502	0 (8,70,180	0	1,05,413	O	()	1,895	U	0	2,85,610 0		\$1,8891	<u> १५५, मधाः है</u>	87.2444
Comparison Tital for corresponding week of previous year For unit of railway corresponding week of previous year	87.167 216	22,796 183	0 0	1	8,03,160		73,844 427			113	0		90,233 0			9,576?	16,4014
Total to co responding date of previous year	183,019		0		10,15,106	-	1,90,018	-		652		"	8,00,954 0			31),075	55,7713

Includes Re. 210 on account of Revenue stores.

Bongal Oentral Railway A

pproximate Beturn of Traffic for week ended 21st July 1883. {Ranaghat Section 203 }	EASTERN BENGAL RAILWAY COMPANY.	Miles open	Total.
	pproximate Beturn of Traffic for week ended 21st July 1883.	{Ranaghat Section 208 Dum-Dum 14}	85

							with the Additional	the same of the same of				maps		-					
			lin.	Α.	P.	28 cls	. 8.	Bu.	Α.	ъ.	Ra.	k .	P.	Rs.	Α.	P.			
Ramgiat Section in Dam Dam do	100	2,190 0,200	548 748		0	22,018 261	0	27 t	0	0	10	0	0	97± 823		0	270 561§	811	891 647
Banachat Section	200	100 686	82 82		10	1,060 18	30	13	13	3 6	0		0	43 67	1+	8	0 101144	00 10	*******
hangebut Sections Dum-Dum do.		5,835 14,812	1,472	0	0	90,490 9,054		856 104		Ü			0	1,855 1,853				 120	1,169
Solal for 8 weeks- damadat Rection Dum-Dum do.	411	7,534 81,019	2,000 2,100			82,508 11,613		630 173			82 28	0	00	2,724	0	0	823) 1,000)	D101 1881	71,763 1,850} v
Total of light Sections		28,852	4,520	U	0	01,820	0	803	U	U	67	0	0	5,350	0	U	2,520)	1,1002	8,6201

EASTERN BENGAL RAILWAY.

Bengal Central Railway Approximate Return of Traffic for week ended 28th July 1883.

	COVOELLE	THAPPI	C.	i	Marchard		PPIC.	IR.	_	Other ea	rni	ngo	Total eas			TOTAL !	TRAIN-MILMO	BUM.
-	Number of passengers.	Connh			Weight carr	ind.	Roceip	80,		(outima	ted	1).	TORK OLD	eth)	ggs.	Coaching.	Merchan- dise.	Total
		Rs.	Δ.	P.	Mds.	8.	Es.	Δ,	g	Ra.		. P.	Ra.	A	. P.			
Ranaghat Section	2,448 6,021	708 832	0 (0	11,566 a d	0	140 (0	0	7 6	0	0	856 850	0	0	845 605§	236 31¢	881 627
Or per mile of railway— Ihmachat Section Dum-Dum Por previous three weeks of half-	155 423	4-6 86	10 5		784		0	6	8	0	7	9	60	5	7	******	988660	03030
Ranaghat Section	7,584 21,019	2,080 2,460	0 (0	52,505 9,315	0	630 (178	0	0	32 25	0	0	2,722 2,658	0	0	8230 1,606	919 1 163	1,743
Total for four week— Ramaghat Section Dum-Dum	9,982 97,039	2,763	0 0	0	64.070 9,371		776 191	0	0	89 81	0	0	8,678 8,614	0	0	1,16% 2,302	3,155	2,824
Total of both Sections	87,021	0,055	0 (0	73,441	0	987	0	0	70	0	0	7,092	0	0	8,4712	1,860	4,831

PATNA AND GYA STATE RAILWAY.

Approximate Return of Traffic for Week ended 7th July 1883, on 574 miles open.

			-	Assertance and a respective or recording		the same of the sa				
		Ro.	A. P.	Mds. s.	Ra. A. P.	Ro A. P.	Rs. A. P.	1		
Total truffic for the week	9,023 158	4,407	19 0 0 11	26,434 30 402 10	1,904 8 0 38 4 8	81 12 0	6,308 11 0	1,663	731	2,304
3'00.7 000 tee	10000	*		*****	*****	*****	******	10488	000.00	*****
Total for 1 week	9,023	4,497	12 0	26,434 86	1,004 8 0	81 18 0	6,893 11 0	1,663	731	2,314
Comparison.										*
Total for corresponding first eight days of previous year	• 9,230	1 4,908	4 8	* 32,028 0	+ 3,125 12 0	*****	+8,081 0 3	• 1,699	- 1,747	* 8,446
Per mile of railway correspond- ing period of previous year	102	86	0 11	502 0	56 18 5		140 14 4	*****	*****	*****
Total to corresponding date of	9,280	4,905	4 3	82,028 0	8,125 18 0		6,081 0 8	1,699	. 1,747	8,446

Represents approximate figures, as audited figures are not obtainable.



SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 15, 1883.

OFFICIAL PAPERS.

Non-Subscribers to the Gazarra may recove the Strumman separately on payment of Six Rupest per annual of delivered in Calcutta, or Twelve Rupess of sout by Post.

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Export on the working of the Jute Warehouse Act during the year 1852-83 Extensive the Alignor Observatory in the month of July 1853 Extensive of the results of the results of the Year 1852-83 Extensive the Alignor Observatory in the month of July 1853 Extensive the Alignor Observatory in the month of July 1853 Extensive the Alignor Observatory in the month of Mean 1853 Extensive of the results of the thermometric Observatory in the month of Disc, Chowringhe 2 In the month of July 1853 Extensive the Meteorological Office, Chowringhe 2 In the month of July 1853 Extensive the Meteorological Office, Chowringhe 2 In the month of July 1853 Extensive the Meteorological Office, Chowringhe 2 In the month of July 1853 Extensive the Meteorological Office, Chowringhe 2 In the month of July 1853 Extensive the Meteorological Office, Chowringhe 2 In the month of July 1853 Extensive the Meteorological Office, Chowringhe 2 In the month of July 1853 Extensive the Meteorological Office, Chowringhe 2 In the month of July				
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RESOLUTION ON THE REPORT OF THE CHEMICAL EXAMINER FOR 1882-83.

MUNICIPAL DEPARTMENT—MEDICAL.

Calcutta the 7th August 1883.

RESOLUTION.

BEAD-

A letter from the Surgeon-General, Bengal, No. 4122, dated the 20th June 1883, forwarding the Report of the Chemical Examiner for 1882-83.

Read also-

The Report for the year 1881-82, and the Government Resolution recorded on it.

The number of analyses performed in the Laboratory during the year is the largest on record. It was 2,133 against 1,900 in 1881-82, which was,

again, a larger number than was shown in any previous year. The following table shows the work done in each of the last three years:—

					1880-81.	1881-82,	1892-83.
Human viscera teste	ed for poison		0 0 0	200	270	225	210
Animal ditto	ditto		100	0 0 1	75	83	105
Substances suspecte		o contai	n, poison	100	572	652	663
Articles tested for l	alood stains	0 002		9.00	140	173	186
	eminal stain				32	24	28
Inflammable oils					33	43	162
					15	18	18
Lime-juice	4 + 9	* * *	0.0	+ 0 4	11	54	77
Potable water	1 4 *	9 0 0		0.0.2	29	112	
Opium, confiscated	f 13. 3	C T)		6 4 4	400	112	29
Ditto, quantitative,	lor Board o	I Kover	1110	0.0 *	9	6	8
Salt	***	***	4 4 *	1.00	2	2	2
Spirits for deleterior	as adulterati	ons		* * *	11	80	6
Spirit determination	s for the Co	llector	of Customs	***	+ 6 4	0 0 0	127
Articles tested	for Purity of	end Que	ality.				
For Small Arms An	munition F	actory.	Dum-Dum		184	191	312
Arsenal, Fort V	Villiam 12		***		17	16	8
Medical Store I	Department				3	6	1 6
Commissariat	ditto		101		10	134	158
Miscellaneous	101			***	62	113	28
			Total		1.470	1,900	2.133
			w			-,,,,,,	_,200

The increase in the analytical work is chiefly noticeable under the heads "Animal viscera for poison," "Inflammable oils," "Potable water," "Spirit determinations," and "Articles tested for the Small Arms Ammunition Factory, Dum-Dum;" while a considerable decrease is to be observed under "Confiscated opium," "Spirits for deleterious adulterations," and "Miscellaneous." The medico-legal analyses show an increase of 35 cases compared with the preceding year. The number of "Other cases" also exhibits an increase of 198 above that of 1881-82.

The number of specimens of human viscera sent for examination was 210. Altogether 31 examinations were made by the Police Surgeon, Calcutta. Apart from these, 106 of the bodies examined were of females and 70 were of males, while in three cases no sex was recorded. In 33 of the former death was attributed to the administration of drugs for the purpose of causing abortion, but in many cases the records shewed that mechanical rather than medicinal agents had been employed. The percentage of cases in which poison was detected was 46.6 per cent. against 41.3 in the previous year. The improvement is so far satisfactory, but it still shows that in more than 53 per cent. of the cases in which post mortem examinations were made, no cause could be assigned for death. The Chemical Examiner has again complained of the meagre character of the post mortem reports generally received by him, and of the want of care frequently shown by lecal officers in the packing of viscers and articles connected with medico-legal cases. An instance is given in which the stomach of a woman was forwarded to the Chemical Examiner for analysis. No information was furnished beyond the bare statement of the hospital assistant of the subdivision that "death was caused from the effects of some irritant poison." Neither the pust mortem report, nor the description of the mode of packing with copies of label, accompanied the bottle. In another case in which aconite poisoning was suspected, the stomach only was sent, the contents having been thrown away by the native doctor, although the preservation of the contents was obviously of the utmost importance. The Surgeon-General is requested to ascertain and report, for the information of Government, the name of the officer concerned. In other cases there was reason to believe that the viscera, after removal, had not been immediately packed and despatched to the Chemical Examiner, but were "retained pending the final results of the police enquiry." Dr. Warden points out that an analysis conducted under these circumstances must lose a great part of its value Clear instructions have been repeatedly issued regarding the method to be adopted in packing and preparing substances for analysis by the Chemical Examiner. The Lieutenant-Governor takes this opportunity of impressing upon local officers the necessity of strictly conforming to the rules that have been laid down by Government in this behalf, and he trusts that it will not be necessary for him to recur to the subject again.

					A REMERIO.			OPIUM.			ACONITE	
				1880-81.	1881-82.	1882-88	1890-81	1881-82.	18828	1880-81	881 82	18-2-83
Human viscera Suspected subs auces Animal viscera	***	***	***	18:7 66 100	21.8 63.6 100	28.5 45.3 97.0	69:7 11:9 Nil	58 08 0 8 Nil.	67:1 8:1 Nil.	2.8 2.3 Nil.	7'8 6'5 N.1.	8·1 6·5 8·0

4. There was a large increase in the number of samples of inflammable oils examined during the year, 162 samples having been tested against 43 in the previous year. This was due to the arrival of large shipments of kerosine oil, which had to be tested under the Petroleum Act of 1881. A series of elaborate experiments in connection with the testing of petroleum are being made, and will be separately considered by Government. In most of the samples examined during the year, the quality of the imported oils showed a marked improvement. Twenty-two samples flashed at 218° to 107° F., and 81 at 100° to 106° F., and in 59 cases only was a flash obtained at a lower temperature than 100° F.

5. Dr. Warden's remarks on the analyses of potable waters undertaken during the year are very interesting. Seventy-seven samples of potable water were examined against 54 in the previous year. Twenty-seven samples from the Eden Canal were analysed in connection with the proposed water-supply for the Howrah Municipality. The analyses were undertaken at the request of the Public Works Department, with a view to ascertain if the proposed water-supply could be drawn from the Surusuttee river. The results obtained have been unfavourable, and the Lieutenant Governor has negatived the proposal to draw the supply from this source. Twenty-four samples of well and canal water were also examined at the request of the Board of Revenue. "The analyses," Dr. Warden writes, "were required in order to ascertain if there was any real difference between the well and canal water which would account for the preference shown by the ryots of Behar in using well water for irrigation of the poppy. As might have been anticipated, the well waters contained, as a rule, a far larger amount of dissolved mineral matter than the canal water, the average of 12 wells giving 43.7 grains of dissolved solids per gallon, and the 12 samples of canal water 10.8 grains per gallon—a fact quite sufficient to explain the reason of the Behar ryots' preference for well water." Dr. Warden has made some valuable and interesting experiments with water from a patent tube well sunk in his own compound, and has compared the analyses of the well-water and the water from a neighbouring tank. His

remarks are well worthy of consideration. He observes—

"In Lower Bengal, I believe that Norton's patent tube wells are little known, and the following experiment with one is therefore worthy of record. With few exceptions, the tank water in Alipore is of indifferent quality. At my request Messrs. Jessop and Co., Phonix Iron Works, sunk a tube well in my compound. Water was reached at 21 feet from the surface. The pump is calculated to discharge 400 gallons per hour, and the cost of the pump, tubing &c., was between 70 and 80 rupees. The water thus obtained at first was extremely turbid from timely divided sand; but this has diminished as the pump has

been worked, and I have no doubt that ultimately bright water will be obtained. On analysis the following results were yielded, and for comparison I have also included in the table the analysis of water from a tank situated about 200 yards from the pump, the water of which is largely used:—

							D ED COR in	nitrates		SCALE.	ARE'S	
				Dissolved solids.	Chlorina	Pree ammonia.	Albuminoid am	Nitropes as 1 and nitrites.	Total.	Temporary.	Permanent.	Remarge.
Pump water	010	***	***	49:76 16:36	78	*0018 *043	0:04	*0714 *061	7	20.8	4 8	Solid residue white; not the least trace of blackening on fanition. Brown; considerable blackening on ignition.

"The point to which I would first draw attention is the purity of the well water. The water is hard, but the hardness is temporary, and 24 oz. of lime per 1,000 gallons would be sufficient to reduce the hardness about 70 per cent. The pump water represents the sub-soil water, in which the chlorine is under one part per 100,000, while in the tank waters the amount is nearly two parts. Again, as regards the 'free' and 'albuminoid ammonia,' the difference is most striking. These facts point most unmistakeably to pollution of the tank water by sewage. Ordinary tanks and wells, as is well known, are liable to numerous sources of pollution, both direct and indirect. Water obtained by means of a tube well cannot be subject to direct contamination. All polluting matter must first filter through a thick stratum of soil before reaching the water. Before excavating tanks or wells, important information might be gained regarding the fitness of the water for potable purposes by sinking a tube well and having the water analysed; and if municipalities invested in a few tube wells and hired them out to persons desirous of sinking wells, &c., large sums of money might be saved, and cases would not occur in which, after a tank or well has been excavated, the water obtained has proved unfit, for use owing to the soil being contaminated, with saline matter."

Speaking of the presence of weeds in water for potable purposes Dr. Warden is of opinion that they not only purify water indirectly by supplying oxygen, but they are also valuable as tending to remove excess of saline matter.

6. The Chemical Examiner has complained of the additional work thrown upon his office in analysing samples of drugs and other substances for the manufacturers or inventors, and he proposes to place certain restrictions on the practice. A reference was separately made to Government on this subject by the Surgeon-General, and the Lieutenant-Governor believes that the orders that have been passed will sufficiently meet the difficulty experienced by Dr. Warden.

7. The Lieutenant-Governor's thanks are again due to Dr. Warden for his good work, and to Baboo Tara Prosunno Roy, Additional Chemical Examiner, and Baboo Ram Chunder Dutt, First (late Second) Assistant, for the help afforded by them to the Chemical Examiner.

OBDER.—Ordered that a copy of the Resolution and of the Report be submitted to the Government of India in the Home Department for information.

Ordered also that copies of the Resolution be forwarded to the Surgeon-General, Bengal, for information and guidance, and for communication to the Chemical Examiner.

Ordered further that extract paragraph 2 be forwarded to all Commissioners of Divisions for information and communication to District and Sub-Divisional Officers.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Benyal.

REPORT ON THE WORKING OF THE JUTE WAREHOUSE ACT DURING THE YEAR 1882-83.

The following Report is published for general information :-

COLMAN MACAULAY, Secretary to the Govt. of Bengal,

No. 806M, dated Alipore, the 5th June 1883.

Memo by-C. C. Stevens, Esq., Magistrate of the 24-Pergunnahs.

Copy, together with the statements, submitted to the Commissioner of the Presidency Division.

Of the 29 warehouses for the year 1881-82, licenses for seven were not renewed, but in their stead 13 new warehouses were opened during the year 1882-83.

No. 3FB, dated Alipore, the 15th May 1883...

From—R. C. Sterndale, Esq., Vice-Chairman of the Suburban Municipality, To—The Magistrate of the 24-Pergunnahs.

UNDER section 27, Act V (B. C.) of 1879, I have the honour to submit, for transmission to Government, the annual report on the working of the Jute Act during the year 1882-83 in the Suburbs of Calcutta, together with a statement shewing the jute warehouses in the Suburbs, for which licenses were granted.

2. The number of warehouses licensed during the year was 98, and the amount of license fee realized on account of the said warehouses, as per accompanying statement, was Rs. 16.220, which, with the amount of fines, Rs. 95, as shewn in paragraph 4, makes up the sum of Rs. 16,315 shewn in the municipal accounts for the year.

3. The following amounts were charged against the Jute Fund, viz. inspection establishment, Rs. 1,884; contingencies, Rs. 1-9; proportion of executive charges at 10 per cent. on the collection, Rs 1,631-8; amount made over to the Commissioner of Calcutta Police for maintenance of fire-brigade, Rs. 9,538-14 as per bills submitted by him.

4. There were six cases instituted against as many persons before the Criminal Bench for breach of the Jute Act, viz. five under clause 1, section 6, Act V of 1×79 (B. C.) for using tiled sheds for storing loose jute in contravention of the conditions of the licenses granted to them, and one under section 12, Act V of 1879 (B. C.), for using a tiled shed building and a plot of land as a jute warehouse without a license from the Municipal Commissioners, and an aggregate sum of Rs 95 was levied as fines inflicted on the said six persons.

and an aggregate sum of Rs. 95 was levied as fines inflicted on the said six persons.

5. A statement shewing in debtor or creditor form the income and expenditure under the Jute Act V of 1879 (B. C.), as called for by paragraph 4 of the Government letter No. 723, dated 20th August 1881, is herewith submitted.

6. Twenty-three fires occurred in the Suburbs during the year under review; a tabular statement shewing the property destroyed by fire and the estimated value thereof as furnished by the Deputy Commissioner of Police is also herewith submitted.

No.	Name of the owner or occupior of the Warehouse.	Locality of the Warshouse.	Amount of license fee.	Total.
	Hydraulic Presses.		Rs. A. P.	No. A. P.
1	Camperdown Pressing Company, Limited	4 and 6, Rustomice's Lane, Cossipore	900 0 0	
3	Hydraulo Frem.	4, Sugar Works Lage, Cossipore	600 0 0	
4	Hursook Das and Booli Chand Asheroft Pressing Company, Limited (owner Kirtee Chunder Mitter),	19, Nawaliputty Street, Chitpore	750 0 0	
В	Messrs. Ernthausen, Oosterley & Co. (owner Raj- kisto Das).	5, Calliprosunno Singha's Street, Chitpore	1,140 0 0	
6 7	Messrs, Ralli Brothers Ditto ditto (owner Russick Lal Seal)	8, Sugar Works Isno, Cossipore 42A, Cossipore Read	1,500 0 0 550 0 0	
8	Messurs, Emile Charriol & Co., Agents and Score- taries. Calcutts Hydraulic Press Com-	a, Call prosunno singha's Street, Chitpore	1,052 0 0	
9	pany, Limited. George Henderson & Co. Agents, Watson's Patent	1, Galliffe Street, Laugh Basar	4:0 0 0	
20	Fress Company, Limited. Messrs Kettlewed, Bullen & Co., Agenta, Chitpore	2, Calliprosunno Singha's Street, Chitpore	810 0 0	
21	Hydraulic Press Company, Limited. Messrs, Reunfult & Co., Agents, Canal Press Com-	6, Nawabputty Street, Chitpore	670 0 0	9.181 0 0
	pany, Limited. Jule Mills.	1		0,100
1	Measrs, Clindstone, Wyllie & Co., Agenta, Clive	45, Garden Reach Road	120 0 0	
2	Jute Mills. Messys, Bird & Co., Agents, Union Jute Company,	6, Gooreeparrah Road, Sealdah	100 0 0	
3	Limited. Megers, Bird & Co., Agents, Union Jute Company.	Southerly godown of premises No. 3A,	100 O U	
	Lamited. Messes. Robinson, Morrison & Co., Managing	Ballinghata Road. 73, Nurkeldangah Mam Boad	60 0 0	
8	Denuty Supering adent, Alipore Juli	5, Juil Lane	60 0 U	
6	Messrs George Henterson & Co., Agents, Burm- nagore Branch Mills.	135, ballinghatte Road	60 0 0	500 0 0
	Cotton Mills.			
3	Memrs. Mackimon, Mackenzie & Co., Agenta,	22, Garden Heach Road	60 0 0	
2	Garden Reach Conton Mills Association. Mesers, Andrew Yule & Co., Agente, Bengal Mills	47, Ditto ditto	ein o o	180 0 0
	Company, Limited.			
λ	Hand Screee.	1, Ramgopal Ghose's Lane, Chitpore	240 0 0	
	Warehouses for storage of Jule.	I, Kamgopai Guoso a Mailo, Omigaro		246 0 0
3	25. 21	4 and 6. Khriuch Chunder Ghose's Lane	50 U 0	
3	Issur chunder witter (owner Nilmoney Mitter) Agent, Eastern Bengai Ranway Company	13, I clautchia Road	50 0 0 700 0 0	7.
8	Intto titta ditto	7 and 8, Prankinsen Mockerjee's Lame,	* 800 0 0	
6	luiste ditto	Chippore. 3. Ditto ditto ditto	0 0 0	
7 8	Pran Kissen Monkerjee Kylns Chunder Nundon	18 and 12A, Taliah Read 7, t hitpure Bridge Read	80 0 0	Te.
10	Dwarka Nath Bhunj) Cotsub Narum Chowdhory	8, Olye Chunditolluh Read	85 0 0	100
12	Mohima Chunder and Kylas Chunder Coundoo .	St. Camel West Road, Ooltadanglo	80 0 0 80 0 0 80 6 0	
18 14 15	Opec Mohun Roy	1-1, Buddri Das' Temple Street 29. Canal West Road, Ooltadanghi 35-4, Ditto ditto ditto	85 0 0 80 0 0	
10	Deep Chand and Hurro Chunder Coondgo	35.5, Ditto ditto ditto	80 0 0 75 0 0	
18	Mohun canai Roy	1, Chitpere Street	50 0 0 50 0 0	
20 21	Dwarkmath and Bonomally Coondoo Bonomally Coondoo (owner Kedarnath Mondul)	20, Chitpere Ghat Lane 2, Bonomally Chatterina's Street	105 0 0 50 0 0	
22	Gobu dhone Shu Calir cunker and Tarrucknath Coondoo (owner	48. Canal East Road, Ooltadanghi	80 0 0	
24	Nundo Lai Mulcick), sonatone I ey (owner Prosunno Moyee Dassee)	6. Gouribere Lane	60 0 0	
20	Calli Sunker Coondoo Nolit Mohun and Brindabun Chunder Sha (owner	R. Tallah Road	80 0 0	
87		24-2. Ditto ditto ditto	60 0 0	
28			50 0 0	
30 30 31	Nurottum and I'volhad Ch. Sickdar	83, Barrackpore Trunk Road	50 0 0 80 0 0 88 0 0	
33	Sonries Cumar and Guru Churn Sha	45, Canal West Road, Ooltadanghi	50 0 0	
34	Dwarks Nath Roy (swner Nundolal Mullick)	6, Tallah Road	80 0 0	
31	Hurris Chunder Butt		0 0 00 0 0 0	
36	Mathub Chunder Putt	14: Canal East Hond, Goltadanghi 7. Nawabputty Street, Chitpore	80 0 0	
40	Rejenuralni Sha and 4 others (owner Rajendralni Neogy).	3 and 4, Chitpure Ghat Road	120 0 0	
63	Calli Churn Poutar (owner Binota Sundar)	2, Buddri Das' Temple Road	60 0 0 50 U 0	
42		20, ditto ditto	50 0 0	
68	Audhur Ch. Mitter (owner Norendro Coomar	80-8, Canni West Road, Ooitadanghi 16, Pykeparrah Road	10 0 0	
66		25, Mouraripooker Lane	50 0 0	
47	Profind Chunder and Disambur Shs (cwner Jihan Nessa Begum; Messrs, Ermsthausen, Oesterley & Co. (owner Calli-		50 0 0	
46	day Bent)		180 0 0	
60	das Seul).		80 0 0	
	Nath Chatterjee).		80 0 0	
81	COLLINS CHARGE SECONSON IN IAMER THESE CONTRACTOR			

Dr.

No.	Name of the owner or occupier of the Warehouse.	Locality of the Warehouse.	Amoun		Total	
		*	Ba.	A. P.	Ra,	A. P.
63 53 54	Rama Nath Das Joggeswar Coondoo (owner Govind Ch. Roy) Dwarka Nath Roy (owner Raboo P. K. Mooker- ien.)	1, Chitpore Bridge approach 7, Setpooker Rend 6 and 6A, Prankissen Mookerjee's Lane, Chitpore.	80 80 88	0 0		
66 66 87 88	Mohash Chunder Coondoo Indro Narain Biswas Russick Lai Sha and 2 others Chunder Nath Dalial	3, Caili Goomar Banerjee's Lane, Chitpore 2, Shaikperrahi Roud, Coltadaughi 6, P. K. Mookerjee's Lane, Chitpore 9, Bejratchia Road	50 50 50	0 0		
60 61 61 63	Gyan Chunder Sen Nilmoney Dutta (owner Nundo Lal Mullick) Jugger Nath Bajpie (owner Haradhone Mondal), Shyama Churn Hullubh (owner Shyama Churn	5), P. R. Mookerjee's Lame, Chitpore 5, Tallah Road 18, Cossipare Road 5, Helgatchia Road	80 80 80 80 80	0 0	-	
64 65 67	Lahoorey). Hurris Chunder Dutta Eirtee Chunder Mitter Ditte ditte Indro Nacain Blawaa (owner Mohima Chunder Chunkerbutty).	10, Chitpore Ghat Lane 9, P. K. Mookerjee's Lane 0, 8 and 10. Chitpore Street 14, P. K. Mookerjee's Lane, Chitpore	50 50 180 50	0 0		
68 69 70	Nilmadrub Siekdar Hurris Chunder Dutt (owner Nilmoney Mitter) Bedam Chunder and Issur Chunder Coondoo (owner Rum Ch. Banerlee).	16 and 17, Galiffo Street, Baughanar 13, Belgatchia Roud 55, Barrackpore Trunk Road	80 80 80		-	
71 72 78	Shyama Churn Bulluch Calli Sunker and Tarruck Nath Coondoo Comulakant Chuckerbutty (owner Radha Nath Count o).	5, Belgatchia Road	50 50 50	0 0		
74 75 76 77 78	Tarra Churn Guho F. Augler Pran Nuth Banerjee Sedam Chunder Coondoo and others Means. W. B. Mactavish & Co.	7 and 8, Chitpore Ghat Lane 4. Kelliprosumo Singha's Street 54, Barrackpore Trunk Road 5. Calli Coomer Banurjee's Lane, Chitpore Compartment 3 of building No. SA, Balins- ghatts Road.	75			
					14,000	0
		Total			16,220	0

Cr. Statement showing the Receipts and Expenditure of the Jute Warehouse Fund for the year 1882-83.

		•				Ho.	Α,	ъ,					_		Ra.	Δ,	P.
To Jute establishment Fire-Brigade Fund Executive charges at 10 Contingencies Balance	per	rount	***	***		 1,884 9,538 1,631 1 3,259	1.6	0 0 0	By Jute-license free	•••	***	 * *	***	**	16,230 95	0	0
				1	Total	 16,316	0	0				2	otal		16,318	0	U

Extract from the Register of Fires and operation of the Calcutta Fire-Brigade.

Date.	Locality of fire with section letter.	Time of outbreak.	Time of alarm at fire station.	Time of arrival f fire- brigade,	Farticulars as to num- bers, description of buildings, or other property destroyed, with approximate va- lue, and whether in- sured or not.		Remares.
108%	•						
April, 17th	34-Pergunnaha	11-15 г.м.	11-30 р.м.	12 P.M.	About 55 thatched buts and a small stack of straw just inside of the boundary of 24- Pergunnahs, Damage about Rs. 2,800.	Unknown	There was only a narrow road between the fire and the houses in the jurisdiction of the Suburbs, which would have caught fire if the sugment had not been there. All out at 3-15 a.m.
3. 26th	B.—Ruburba, Chitpore.	8-10 A.M.	8-20 A.M.	8+40 A.M.	Two tiled huts, one containing jute and cotton for sale, the other occupied by a tailor. Shaikh Womer, the owner of the cetton shop, states that he saw fire suddenly blass out of the cotton bag, but caunot account for it. Damage about Rs. 100.	Ditto	All out at 9-30 A.M.; steam ongine was not required.
May, 5th	M.—Suburbe, Watgunge, Paconortol- lah.	\$ P.M.	B Pubs.	8-5 p.M.	Twenty two golepatins buts, valued at about Rs. 600. Not insured.	Unknown, Broke out in the house of Rahaman Ally, occupied at that time by his wife and family who can give no account of how it originated.	All out at 5 r.m.
., 5th	B.—Suburba, Chitpore.	12-30 г.н.	12-90 p.m.	12-40 P.M.	I'wo tiled huts, valued about Ra. 70. Not insured.	Unknown. Broke out in the mat wall of the hut occupied by Shaik Haideo.	All out at 2-30 P.M.
Oth	M.—Ruhurba, Watgungo.	8-30 P.M.	8-30 г.м.	0-30 P.M.	Four golepatta huts, val- ured at about ks. 150. Not insured,	Broke out in the cook-room of Doobres Bowsh who was cooking, but left the room for about time, and when she returned, found the place in a blaze.	All out at 9-30 p.m.

Date,	Locality of fire with section lotter.	Time of outbreak.	Time of alarm at fire station.	Time of arrival of tire brigade.	Particulars as to num- bers, description of huddings or other property destroyed, with approximate val- ue, and whether in- sured or not.	Cause of fire	Rumenus.
3863. Nov., 10th	A.—Suburba, Cossipore, Camper- down Press.				Three large brick buildings masd for storing jubo, one ditto used as a spinning room, one ditto as presshouse, seven presses and machinery, and the spinning room, machinery, jute, &c. Ruildings insured; most, if not all, of the jute said to be insured. Value of huilding and machinery is 3,02,000. Va. ine of jute about Es. 1,24,225.	Unknown. Alleged to have been caused by a spark from the chimney falling upon some loose jute aproad out to dry on godown No 5. Mr. Johnson, the Manager, state that he had just left No. 4 godown at 11-50 a.M., when he heard an alarm of fire on the roof of No. 3, for ran and ordered the engineers to put on the hoac and to the people about to bring water. He got on the coof and thought he was putting the fire out when he obtained to look over the aide and sew the press house had oaught,; at the same time one of the skylights of No. 5 seemed to burst, and the sincke poured out the same as from a furnace. He got to the state of the telephone, and communicated with the office at two minutes to 12, and just had time to take the books out of the office, which took about flow minutes, when the safe tell through the floor, and by the same he age to the	nontess more the jute world have cought fire and probably would have conmunicated to the adjoining godown which was full. As no further time could be lost, the brigade had no alternative but to pour water upon the jute and wall and prevented the fire from apreading in that-direction.
27th	blaze at the were near plote blaze. Rs. 90,000, gedowns, value Rs. 11,376, J.—Suburbs, Bangalparah,	the gate, and the gate, and Buildings de apinning-rountors godewn 60,225, about Buildings in 12 r.m.	nd the first tentroyed. Ge on its. 7,000 s. hollore an nt 20,000 mau naured in the 12-15 r.m.	hey knew of adowns Nos of machiner, adsofices,	of the fire was from the 1, 3, and 4, value Ra, y above Rs, 11,0 10, to nise chimney, valued a jute, value Rs, 65,000; to benden and Lagreanize Twenty and I hatcher hute, valued at abou Ra, 450. One boat containin about 700 maunits o jute, valued at abou Rs, 25,001, Not in	workmen's running out, fam, 1,50,000, press-house its. 4 tal Rs. 5,02,000. Huilding t about Rs. 20,000. Huilding t about Rs. 1,24,225. Jute saved of the family of Auundi Kauwho, after smoking, left her hut and soon after swhich communicated the adjoining houses. Unknown, Supposed the distribution or family of the family o	durwans ataic that they a Vol. 3 gadown was in a com- of,000, presses and machinery a saved, engine-house, three stroyed 3,117 second bales, mly about 5,600 manuads, value, the jute not ascertained. a No. 5 engine remained on the sput till z a.R., when a law a out, Steam-engine promosed to Palygunge, and it was not required as the 20 into super destroyed within haif as hour at 12 r.M.
. ,, 290	h M.—Suburbs, Tolly's Nullsi		11-30 д.м	12 Noon .	aured; bost also muc damaged. Two country bost laden with straw Damage about Rs, 200	An empty boat belonging to ruddee Nath Jann was lying alongside thes boats, the man were cooking, and it is alleged that a spark from their five se	throwing the straw into the capal, by which means a quant-ty was saved, a.ac the bosts. All out at 2
Dec. 16tl	h B Suburbs, Chitpere, Strand Bank Press.	0-10 р.м	0.30 P.M	10 у.м.	ings about 200 by in feet, containing fau presents, oughtes, juit &c. also one g.dow about 200 by in feetful of jute, all destroyed. Vains of building destry yed insured for Rs. 94,900, present at machinery maured for Z. 10,000, jute de troyed, valued Rs. 1,83,000, total Rs. 4,93,000. Builings saved fig. 30,700. The large godown savulul of jute; valunknown, probab Rs. 1,00,000.	the straw on fire, Unknown, Mr. Rekes, th Manager, was sented it to his house and discovere a light in the jute room He immediately gave th starm and set his engin y- to pump water on the fire but it apread very rapid or and the whole was in blase in a few minute or milk by lamp-light, be the manager stated th the manager stated th differ originated had a been open for some days we ded	Arrived at 10 p. sr. The build ingo destroyed were then all on fire. A quantity of juke in balas and bundles of rope were lysing at the morth and of the godown destroyed; also between the smit the main building which were in a blass when the brigade wereved. Close to the door of an empty godown the door and doorpat by the smit was put out without doing further damage. A number of bales were hand of the same gotown, which also caught the, but it was queuelsed by the engine, and the bales removed which were lived in the same gotown, which also caught the, but it was queuelsed by the engine, and the bales removed which were living nearest to
161	to the pr	kept at work 9-15 a.M.	ide, full of ju	ie, aud an	the brigade to attent from spreading any fu	the till the morning of the Conknown. The godow were opened in present of one of the manage and agents about 8-30 A. ue when everything a	as they only paid attention godowns, about 200 fact long saved. Steam engine was 17th. 17th. 18th an engine Ganges had just returned from the fire at the Strand Hank and Press, where it that worked to be seen to be see
,,	E.—Suburbe			м. З А.М.	Fifteen golepatta hu valued at about 50. Not insured. Four golepatta in valued at about 50. Not insured.	tte, Staw in cow-shed cam He, fire from some fire left a clistit, Originated in the hut	the All out at S A.M. of All out at S A.M. igh

							-
~ Date.	Locality of fire with section letter,	Time of outbreak,	Time of alarm at fire station.	Time of arrival of fire- brigade,	Particulars as to num- bers, description of buildings, or other property destroyed, with approximate va- lue, and whether in- sured or not.	Cause of fire,	Ramarks,
1863.							
Jan. 17th	J.—Suburbs, Haldarparrah,		18 P.M	13-15 P.M.	huts, valued at about Es, 25.	pan by Thakoor Dass, said to be 100 years old, and his wife Bhorub Dassie	
	anid to be 90 ance could b	years old, at	nd who alway	a keep fire in	a pot in the house and of	Ren in their bed, both were t	purnt to death before assist-
., 23nd ,.	d, →suburba Chitpore.	11-45 г.н.			One hundred and fifty drums of jute stacked up against the puces wall of a jute-godown		All out at 8 a.m.
" #7th	helonging to			ng to its late 2-20 F.M.	arrival had not time to at Four golepatta huts, valued at about Re. 170.	who after cooking left some fire on the hearth and placed some wood npon it to dry which blazed up and caught the	Engine on the spot immediately and prevented the fire approximg. If any delay had occurred, there would have been a large
Peb. 8th	F.—Suburbe	8-46 P.M.	3-48 P.M.	3-50 P.M.	A quantity of jute in drums, damage about Ms. 200,	mat-wall. Drums of jute were being conveyed to the Hurranagore Jute Mills and, after being deposited in the compound, caught fire: cause unknown: probably the exters had been smoking on the road and dropped fire into one of the drums.	
10 18th	J.—Suburbe	11-45 д.м.	31-66 A.M.	11-50 A.M.	Two golepatta huts, valued at about Es. 50.	A boy, about five years old, during the absence of his mother, took some fire to some straw in adjoining room.	All out at 1 s.m.
,, 16th	C.—Suburbe	3 A,M,	2-30 A.M.	3-45 A.M.	Nine tiled and gole- patta huta; damage about He. 200. Not insured.	Firetook place to the house of one blanns, who after smoking left the cholum against the mat-wall, which took fire.	Fire not seen from the lock- out owing to a very thick fog. Information sent to Tallab, from theme by telegraph to this office, Hrigade proceeded to the spot, but was not required to work. Hose-cart drove over suction pipe of No. 2 engine, and was destroyed about 15 feet. All ogt at
,. 23nd	O.—Suburba, Matials orj. Dhanketti.	3 4.9.	3 A.M.	8-20 A.M.	Eight golepatts hute, valued at about Rs. 550, Not insured.	Broke out in the house of Binds Kahar from the light of a kerosine lamp ostching the mat-wall.	4.1%. All out at 6.1%, after which it was discovered that a woman 55 years old, named Woairun, was hurnt to death hupposed she was burnt while saleso. Firsh not seen from Lall Baser look-out, probably owing to the high buildings in-
March 8tb	K.—Ruburbs,	10-30 P.36.	10-80 т.н.	11 р.м.	One puoca building used as Suburban Municipal Office, value Ra. 2,500	The fire broke out in an office in the upper floor occupied by Mr. sterndale, Vice-Chairman. There were almirain, papers, &c., in the office which worse all burnt, as well as the beams, windows, and doors of the upper flat. The origin of the fire is not known. There can be no doubt, from enquiries subsequently made, that the fire was caused by lighting.	engine worked well until it was stopped in order to shift the hose. When started again it would not draw water, on examination found that a screw bolt inside the pump was loose. (Easily repaired).
32nd	MSuburbe, Watgunge.	4-45 A.M.	4-65 P.M.	5 P.M.	Four tiled buts, valued at Rs, 108.		Fire seen from Watgange fire station and extinguish- ad by hand-sughe. Not seen from police look-out.

Rainfall, Weather, and State and Prospects of the Orops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 4th August 1888.

N	o.	District, av		te of		Rainfall at Sudder Station in inches.	
E	IGAI	. Western L	diatori	cts.			
					100	F.00	Wanthan about a mining mining and in a man of the same
1	1	Burdwan.	Aug	11		5.69 1.07	Weather—cloudy, with showers at intervals. Transplanting continues. Prospect good,
		Cutwa				1.53	
	2	Rancegung Bankoora,		11	00	1·26 6·20	Weather-cloudy and sultry. There was enough of rain during the wes
1	. "	Bishenpore				8.68	throughout the district, and the crops in the field are promising well. Hem is in flower. Sugarcane is doing well. Public health good.
1		Malinra				4·80 6·13	0
1	3	Reerbhoom,	90	11	2.1	1.74	Weather-cloudy, with occasional showers. Transplanting of amon crop near
		Rampore I	Haut		• 0	2.75	completed. State of the crop is good, except in a few places. Prior stationary. General health satisfactory.
1	4	Midnapore.	90	11	6.0	4.81	Weather-seasonable. Transplanting of paddy still going on. Prospect
I	5	Hooghly,		11	05	2:31	favourable. Public health fair. Wenther-hot and rainy. Crops doing well. Public health good.
1	v	Howrah	11	18	PP	1.06	Pain sufficient. Aus rice and sugarcane flourishing Amus rice being tran
		Oolooberia	1			0.86	planted. Jute being cut. An occasional case of cholera reported.
		Central I.	istri	cts	-		
	B	24-Pergunnah	Anc	r. 19	'83	1.89	Weather-hot and dry, with occasional rain. Prospects of early crops goo
1							Transplanting of amun going on Public health good
-	7	Nuddea, Koosbtea	0.3	11	99	1.83	Weather—rainy, cloudy, and cool. Prospects of rice crop fair Manufacture indigo going on briskly. Mortality from fever on the whole stationary.
		Meherpore				1.85	o o o o o o o o o o o o o o o o o o o
1		Choondang Ranaghat	ra.		***	2.38	
	8	Khoolua,	80	11	80	1.47	Rainfall rather light: weather close and cloudy. Transplanting of em-
							rice going on. Aus rice in flower, and cutting has commenced in some place Fever at Satkhira, otherwise public health good.
	9	Jessore,	20	11	0.9	8.10	Weather-hot, with occasional showers. Prospects of crops good. Ample rai
ı		Jhenida Magura			2 4 8	0.86	has fallen. Transplanting of omess progressing rapidly. General wealth goo
ı		Narail				2.86	
1	10	Bongong Moorehedabad		3.1		2.60	Wenther-hot and cloudy, with occasional showers Bhadoi is being harvested
,	10	MI HOLDHAU ROEG	0 0.0	11	0.0	8-11	some places Transplanting of swen continues. Other crops are doing we
	11	Disagepore	Aug.	10	'83	4-46	Health of the people on the whole good. Weather—cloudy and showery. There was almost constant rain during the week, which has been of great service to the standing crops. Sugarcane doing well. Jute is being cut. Transplanting of amus is being carried of it is slow in some places owing to want of adequate rain. Hice selling at fro 16 to 21 seers per rupee.
١	12	Raisbabye,	* #	11		1.86 8.20	A good rainfull at the sub-divisions, much less at head-quarters. Crops dois well.
١		Nowgong			**	5 60	
	13	Bungporu Gnibanda	29	11	10	8.34	Weather - seasonable. Recent rain has done much good for transplanting smun. Harvesting of sus is about to be completed. Public health good.
		Kurigram				5.87	white.
	14	Nilphama: B.gra.	ri	1.1		7.05 2.58	More or less rain fell daily except on the 10th, when there were a few drops on
		8.2	,,			2 00	Transplanting of ames is still in progress. Harvesting of ass and jute going on. Public health good, except a few cases of fever reported from Bogra at Badulcachi police-stations.
	15	Pubna	19	11	>2	2.89	Heavy showers; weather very close in intervals. Rivers still rising. Cro
1	16	Unryouling.	9.2	11	50	7.87	generally good. Jute rather poor. Occasional heavy rain throughout the week. Crops in the hills progression
	17	Jupigoree,	4.6	11	63	19.86	favourably. In the Terai early rice and jute being cut. Public health good. Heavy seasonable rain. The heavy rain has benefited the crops. One stati
	4.0		1.2	20			alone reports bhadoi and jute backward. General health promising.
-		Cooch Behar	th.	10	900	11.76	Heavy rain in head-quarters sub-division, probably general. Heavy rain at falling. Heavy and continuous rain has set in, and is doing good to the you
		Dinhatta			4.0	6.41	rice and furthering transplanting operations. Jute favourably reported
		Mathabha				1.59	Cholera disappearing.
		up to 4	lth-				
		Meckligur up to 41	lh.		***	4.64	
	18	Eastern I		. 11	'83	8.19	Weather-seasonable. Aus paddy and jute are being cut. Sowing of reach
	20	Maniekgu	nge			4.18	paddy going on. Prospects of crops good.
	19	Munshigu Farracapore,	nke	11	96	4.76	Weather-sessonable. Early paddy and jute being cut, with fair outtur
	1 -0	Clontundo			9.0	4 55	Prospects of late crops upproved. Public health generally good.
	30	Madaripol		9	101	1.52	6,000
	-	Sandher Kentige.	*1	9	9.0	4.28	Weather—seasonable. Ass crop being reaped. Transplanting of aman has on menced in some places. Cattle-disease still provails in many parts of t
	31	Mymensingh.		10	9+	8.60	Patuskhali sub-division, causing a serious loss. Sky cloudy. Broeze from south-sast. Showery afternoons, Nights cool. Tra
		Jamaipore				6.57	planting of amus going on. More rain wanted in parts of the district. N
		Kishoregi	O MARIE			1.94	jute coming into market, of poor quality, but fetching up to Rs. 3-4
		Attea			0.01	4:41	maund. Ass not expected to average over 8 annas in the Sudder sub-division

	reti	ага.	ete o	e C	at Sudder Station in inches	
			-	-		
		. 9. 9				
			. 14	188	7:55	Weather -seasonable. Transplanting in progress. Prospects fair. Outturn of
1			0			aus rice good. Prices stationary. Cattle-disease still reported.
		9.9	8	91		Weather—cloudy and rainy. Aus paddy being reaped. Transplanting of amon paddy continues generally.
24		baria	9	94		Weather—seasonable. State and prospects of crops good. Transplanting of late rice going on. Public health generally good
-					5.10	
80	Trasts.	111 20	7		2 80	Successive showers with high variable winds throughout the week. Cotton crop will be a failure, the highest estimate being 3 annae of an average crop. Jum paddy doing well, also sugarcane and plough-paddy lands.
	Hill Tipperah	3.7	8	31	2.70	Weather-rainy Satya paddy and til being reaped. Amus still being trans- planted. Sugarcane doing well. Public health good.
HAR.						
0.6	Patna	Ana	11	183	1.48	Washan hat and spites Teamshating of adds in account Bi dai in a
1 200	Barb	za ug			2 55	Weather hot and suitry. Transplanting of paddy in progress. Bhadoi crops have suffered from heavy rain and overflowing of the river in the Barb sub-
	Behar			**	2.10	division. Cholers reported from Barh and Behar sub-divisions.
27	Gya.	11	11	.,	0.29	A break in the rains. Weather extremely sultry. Transplanting of paddy is nearly finished. All crops doing well. Indian-corn ripening, and promising a good
-	61 1 1 1					outturn. Public health indirent. Cattle-pox very prevalent.
28	Buxar	**	11	0.0		Weather - cloudy, with west wind prevailing. The break in the rains beneficial to the bhadoi crops which, as well as rice, are doing well. Cholera abating in
	Bhaboosh				1.26	Bhaboonh.
29	Durbhunga,	9.1	11	9.9	6.41	Weather—hot, but seasonable, heavy rain occasionally. Prospects of crops favourable so far.
80	Mozufferpore.		11	10	2.00	Wenther-cloudy and showery. Crops in good condition. The rain has done
				000	1.81	much good in the Sectamurhee sub-division. Fair weather at present would be advantageous.
81			11	0.0	1.01	Weather-fair for the time of year. Prospects generally favourable, Makes
4	Sewan				2.45	in some places injured by the late heavy rain. Transplanting of paddy going on Public health good.
82	Снатригна	P9	11	81	4.07	Weather—cloudy, with frequent showers. Prospects of crops excellent. Sufficient rain throughout the district. General health fair
83	Monghyr	Aug.	11	'88	1.63	Weather—hot and cloudy. The continuance of rain has been unfavourable to
				* * *	2.88	bhadoi crops. Transplanting of rice seedlings is progressing. Cholera still present in Monghyr town.
84	Bhaguipore,	29	11	-	6.65	Heavy rain, though less in interior of the district than at Bhagulpore. Prospects
26	Paraesh		11		9.05	of crops continue good. Weather—normal, except in Sudder sub-division, where rainfall is short. Pros
00		ge	44		2.52	pects of crops good generally, but more rain still wanted in the Sudder sub-
9.0	Arraroah		11		8.94	division. A tew light showers Weather cloudy. South-east wind prevailing. Prospect
QY1	annunu,	60	**	po	1.02	of bhadoi paddy favourable, but more rain wanted for full growth of winter rice crop. Rivers rising. Public health good.
87		п ,	11	00	8.09	Weather warm and rainy. A little more rain wanted at Rajmehal. Rice every where promises well. Transplanting is well forward. Indian-corp will be a
2				***		short crop. Public health good.
	Jamtara				2.71	
	Pakour			***	3.69	
88A.						
98	Cuttank	Ang	10	189	9.10	Weather and and slandy Resed hains transplanted Pasti hains madel
90	O GO ON GA	aug	. 20		2.18	Weather—cool and cloudy. Sarad being transplanted Beali being weeded. Sarad crop on low lauds in some parts of Jajpore and Kendrapara sub-divisions suffered a little owing to heavy floods in last week. Public health generally good. A few cases of cholera reported from the interior. Common rice self-
						ing at from 20 to 25 seers per rupee.
85		1.0	9	0.0	0.74	Weather-cloudy, with showers of rain. Transplanting and weeding are going on. Beati rice is in ear. Miscellaneous crops thriving. Prices stationary.
40		80	10	.,	3.29	Cholers reported from the interior. Weather—rainy and cloudy. Weeding and transplanting in progress. The
						Subarnareka in the north has risen considerably. No injury to crops has been
		or				reported. Public health good.
	Agency.	A	30	Pau		Will other than along the SEP to also have the down Themselves answellens
401	eragariongu.	Aug.	10	00	136	Weather—less cloudy. Warm since the last three days. Transplanting operations are being pushed on vigorously. Prospects of both bhados and rice crops seem favourable. Cases of cholera still reported from several thanks, but the general health seems good.
42	oburdugga	21	11	32	2.64	Weather-seasonable. Prospects good, Transplanting of paddy going on.
	Palamow				B-97	Cholera increasing in Hussainabad. No cattle disease. Prices as before. Weather—bright and very hot. A break has succeeded heavy and continuous
62	Augunoom,	81	10	0.9	9.10	cain. All crops doing well, and agricultural prospects everywhere favourable. General health good, with the exception of a few cases of cholera reported
40	Imphaam		11	1	8-70	from one outpost. Weather—damp and warm. Prospects of all crops excellent. Small-pox at
-					8:64	Topobanchi; otherwise public health good.
	22 38 24 25 25 26 27 28 29 30 81 32 33 34 35 36 37 38 36 37 38 36 37 38 36 37 38 36 37	22 Chittagong, 28 Noakholly, 24 Tipperah, Brahmun Chandpor 25 Chittagong Hi Trasts. Hill Tipperah Barh Behar Dinapore Cya. 28 Shahahad Buxar Bhabooah Durbhunga, 20 Mozufferpore, Hajespore Sectamuri Sarut. Sewan 28 Chumparun 38 Monghyr Beguserai Jamui Bhagupore, Arrareah Maldah, 37 Sonthal Pergh Deoghur Rajmehal Jamtara Pakour SSA. 28 Cuttack 39 Pooree, Kboorda 40 Balanore. YTA NAGPORE Sonth. West Fronti Agency. 41 Huzaribagh. 42 obardugga Palunow singbhoom, 44 obardugga Palunow singbhoom,	Districts.—coneld. Districts.—coneld. Chittagong, Aug Noakholly. Tipperah, Barhmunbaria Chamburbaria Chittagong Hill Tracts. Hill Tipperah Barh Behar Dinapore Gya. Shababad. Buxar Bhabooah Durbhunga. Mozufferpore. Hajespore Sectamurbee Sarut. Sewan Chumparun Monghyr Beguserai Jamui Bhagupore, Arraroah Maldah, Sonthal Perghe Leoghur Rajmetai Jamtara Pakour SSA. R Cuttack Aug Pooree, Khoorda An NAGPORE Sonth. West Frontier Agency. Huzaritagh. Aug. term Districts.—coneld. Chittagong, Aug. 14 Noakholly, ,, 9 Tipperah, ,, 9 Brahmunbaria Chandpore Chittagong Hill ,, 7 Teasts. Hill Tipperah ,, 8 HAR. Patna. Aug 11 Barh Behar Dinapore Gya. ,, 11 SS Shahabad. ,, 11 Buxar Bhabooah Durbhunga, ,, 11 Mozufferpore. ,, 11 Sewan Chumparun ,, 11 Monghyr Aug. 11 Sewan Chumparun ,, 11 Sewan Chumparun ,, 11 Sonthal Pergha ,, 11 Kissengunge Arraroah Maldah, ,, 11 Purneah. ,, 11 Kissengunge Arraroah Maldah, ,, 11 Tonthal Pergha ,, 11 Boothal Pergha ,, 11 Boothal Pergha ,, 11 Cuttack Aug. 10 TA NAGPORE South. West Frontier Agency. 1 Huzaribagh. Aug. 10 Aug	Districts.—coneld. Chittagong, Aug. 14 '83 Noakholly. "9 " Tipperah, "9 " Brahmunbaria Chandpore Chittagong Hill "7 " Trasts. Hill Tipperah "8 " HAR. Patna. Aug 11 '83 Barb Behar Bhebar Bhaboah Durbhunga. "11 " Nozufferpore. "11 " Hajespore Seetamurhee Sarut. "11 " Sewan Steguserai Jamui Bhagupore, "11 " Nonghyr Aug. 11 '83 Beguserai Jamui Bhagupore, "11 " Sonthal Pergha "11 " Sonthal Pergha "11 " Sonthal Pergha "11 " Sonthal Pergha "11 " Arraroah Maldah, "11 " Tantara Pakour Sa. Aug. 10 '83 Pooree, "9 " Khoorda Aug. 10 '83 Poaree, "9 " Khoorda Aug. 10 '83 Palamow "10 " Hazaribagh. Aug. 10 '83 Palamow "10 " Hazaribagh. Aug. 10 '83		

Published for general information.

CALCUTTA, STATISTICAL DEPT.,
The 14th August 1888:

COLMAN MACAULAY,
Secy. to the Goot. of Bengal.

Meteorological Report of the Province

210		1 10			-				STA:	LION	OBSE	RVATIO	MR'				
DIA				AIR P	LHEST	u.			7	TRMPS	RATUR	8.		Humn	DITT.	CLo	WD.
CIRTROROLOGICAL DIVISION	DISTRICT.	Representative	Burbest, 10 a.m., burenet read-	Lowest, to A.M., parometer read- ing of reestin.	Mesm, 10 A.M., for mouth.	Mean reduced	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily man- mun tempera- ture.	Mean daily mini- mum temp re- ture.	Mean daily tom- perature.	Variation from gorma, mean.	Mesn, 10 A.M., humidity.	Variation from normal mean.	Mean cloud amount, le A.M.	Variation from normal mean, 10 A.M.
,		Gopalpore	19:691	99:431	19-857	29'607		96*8	75.8	62 8	79.8	87.3	*****	85	0.0	7.3	+1'8
4	Poores	False Point	716	*467	1666	*897	- 039	92'8	78-1	87:4	77'6	88.9	-1.3	82	0.0	9.8	+0.3
Ourney	Cuttack	Cuttack	1054	1889	1812.	.988	-029	98'4	78-3	88.0	78:3	83'1	-10	77	0.0	8/3	0.0
5	Balasore	Balasoro	*855	.383	'616	.675	***	92.4	74'8	67'3	78'1	R3-7	*****	801	100.45	7.6	
-	South-West Midnapore and South M-Pergun- nahs.	Saugor Island	*794	*434	'563	*890	029	92'2	71'6	R7*6	79'4	83'8	03	84	-3	7.6	-1.9
de la	Midnapore	Midnaporo	'661	'309	*443	'457		93'8	73'8	88'5	77'8	82.0	*****	80	*****	7'1	*****
DEKOV	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	'703	.408	*850	580	-037	92.9	71'3	87.9	78-2	83.4	0.8	82	-2	9*1	0.0
	Burdwan	Burdwan	.010	1885	483	*582	-024	9416	74 4	89.6	78'9	84'8	-0.4	80	-8	8.8	+1.1
	West Burdwan, Ban- koora, and Beerbhoom.	Razigunj	'367	281972	*846	***		93.9	76'6	89-2	78:7	88'6	-1°0	82		6°6	-0-4
	Moombodabad	Berhampore	020.	29.364	048	*576	021	98'7	74'8	90.2				commend			
	Nuddea		4240	.441	'557	.89%	210	0411	Edu	80.9	78'9	86'2 1	+0'8	88	+3	9'6	+0'4
,	Jemore and Khooina	eromet	'713	'441	*366	,	-010		76'0		76 2	811.6	-079	85	+1	7:1	-0.8
1	Chittancong	Chittagorus	'746	'366	000	666	0046	901	74 0	8610				received	-	A	
	Chittagong Hill Tracts	Domagri	10000	1437	*589			0110	desir a s	8817	76'91					6.3	
н	Backergunj	Barrinal	'756	'417	809	40.0	***	91.6	78'4	do 1				onmeno			000000
	Nonkholly	Noukholly	4000		'887				22.4140	87 '5		8:28		84		6.8	
	Purmedpore	Furreedpore	*737	*404	1	949ch.4	***	91.8	7419		76.1	83.4	-0.3	82	+1	78	-0.6
	Daoca	Ducca	'723	.416	*872	.0079	029	9318	75'1	87.6		79'8		63		6.7	
	Commillah	Commillah	*767	*453	576		***	87.6	99.8	8816	76'8	83.3		84		8.8	*****
(Mymensingh	Mymensingh	.774	'668	8/6	***	***	94.3	78'1	30 0	70 11	00 0 (OW .		90	
-	Bogra and Pubna	Serajgunj									()beervat	ory not	commen	ood.		
	Rajshahye	Rampore Beau- leuit.	1678	'342	*503	576	***	95-1	78:0	80.0	79.6	85*8	*****	81	*****	6.2	
	Dinagepore	Dinagepore	.613	1834	1478	1.5.0	***	93.0	76-1	80.3	76'8	84.2	*****	77	000100	8.2	869+40
1	Rungpore	Rungpore	'722	1413	.214			97*8	74'6	91'1	78'3	84.8	041414	79	70000	6.8	800111
	Julpigoree and Cooch Buhar.	Julpigoree	4.98	135	23.66.6		***	9619	7611	8918	78°0	63.9	****	644	00000	6.9	*****
(Darjoeling Hill Tracts	Darjeeling	22'994	23.758	29.942	'672		71%	54'6			85.1	+0'8	80	0 0	9.7	+3'5
	Purnesh and Morth Bhagaipore. Mozufferpore and Dur-	Purneah Durbhunga	20.983	29'302	'409	-575	+032		76°5	91.1	79'2	85.4	+1.0	83	+8	6.6	+1'4
	bhunga.	Durbhunga							7.0		1					- 1	17.
	Chumparum	Motihari	*****		8.01	0.04	***	97'1	78.4	84.8	76-7	00.0	*****	78	129111	1.0	111007
į	Sarun	Chupre	'487	*\$10	'800'			89.0	74'0	92.0	70-7	86.8	000 000	93	*****	6.9	*****
1	Shahabad {	Debree	'348	'110	.832	-877		97.8	68.0	86-7	71'8	79'3	*****	76	0.00 000	7.0	824112
	Singuisond	Buxar	1664	*192	'394	'535	***	101.9	78-8			85'2	******	76	100 700	7.8	80000
	Gyъ	Gув	'319	*066	183	*568			71.8		75'1	63*0	-8.0,	77	+3	6.8	-0'9
	Patna	Bankiporo	-400	*241	*891	'67⊕	013		75.3	81.8		86.1	+0.4	70	~8	8.8	+ 0'8
	South Bhagulpore and Monghyr.	Bhagulpore	*847	*268	*638	-866	***	86.8	77'0	80.9	79.3	85°U	00000	78	*****	8°3	40000
(Sonthal Pergunnals	Naya Doomka	*900	201924		81+	***	9811	74'8	86:3			*****		10000		
1	Hazaribagh	Hasaribagh	27.781	27:472	27*591	*577	-006	89*8	71'8	83.6		78-7 Commen	~0°6	83 1 2lst Ju	+2 ly.	*1	+01
PORR.	Mingbhoom	Chaibassa									0	beervate	ory not o	ous meno	ed.		

Bengal for the month of July 1883.

						٥,	BEVATIONS	PRICT OBSE	DIK			1
	6						LL.	BAINFA			9	•
	To Edward Love	Representative		у.	o toth Mag	Bino				Of month.		
	DISTRICT.	atatzons.	Normal mean num- ber of rainy days.	Mean num- ber of rainy days.	Variation from mean.	Normal mean of district,	Mean of dis- trict.	Normal mean num- berof rany days.	Number .f	Variation from mean.	Normal mean of district.	Mean of dis- triet.
,		Gopalpore)	*****		*****	******			*****	*****	*****	
	Pooree	Fulm Point }	33.6	3518	+9'67	22199	32'86	18:3	`20:0	+2.35	12'30	1 1165
1	Cuttack	Cuttack	81.7	37.9	+11-19	23 57	34.76	1616	1615	+1'00	13'01	14:01
	Balasore	Balasore	33.0	4314	+10-15	23:17	83 32	17'8	201H	-0'76	13'09	12 98
1	South-West Midnapore and South 34-Pergun-	Saugor Island	3915	87.7	+3 61	27 39	81:01	19.8	190	+ 4'26	14'98	19*24
	Midnemone	Midnapore	34'8	81'7	-2195	34.12	21'20	17:1	17'4	+0'92	13:11	18'08
		Cislcutta	4314	44.4	+2.63	25*17	27.80	21.6	34'3	+4:00	18'11	10'80
}	Burdwan	Burdwan	3616	39.3	+7'40	22.78	80.18	18.4	22.0	+6.66	10.40	17:15
	West Burdwan, Ban- koors, and Beerbhoom.	Ranigunj	30.4	41.5	+6:00	25:30	31.30	19-9	20'6	+3:48	12'72	16:30
	Moorshedahad	Berhampere	36'2	39.7	+ 276	23.79	28.93	16:8	16'8	+1'11	10:63	11.74
	Nudden		371	36.5	- 4.14	24100	19.90		17:2	-0.32	10.48	10.12
)	Jessorn and Khoolna	Jessoro	4816	45'8	-0.69	27:01	26.36	25.1	23.3	+3'03	10.68	13 71
1	Chittagong	Chittagong	52.7	59'8	+14 24	66.98	80.80	24 6	28'0	-2·77	18:68	\$0.08
	Chittagong Hill Tracts	Demagri	52-4	67.5	-10.03	43.19	80.08	26:0	20'2	-4:59	18:63	19118
	Backergunj	Barrisal	53'3	52.2		43-94	33.92	28.9	3810	-0.53	28-50	14186
1	Noukho'ly	Noakholly	53 7	92.5	+8'07	87'43	66:30	21.3	23°C	+3'74	12.80	23:27
11		Purreudpore	48.8	4714	-4:40	80.01	27'02	21.4	2310	+8:61	19.33	15:24
	Daces	Dacca	48'1	46'4	+1.31	82.31	87.63	21.0	32'7	+ 4*37	13:6:	18.04
1	Commillah	Committah	60.0	80.0	-10.93	35.72	25:20	20.4	10.9	-1:38	14.36	12*99
1	Mymonsingh	Mymensingh	4617	42.0		30 /2	20 80		200		40.00	
1	Borra and Pubna	Serajgunj	30'0	33.8	-5.84	28.75	22.91	17.7	16.2	- 1'79	12 30	10.98
	Rajshahye	Rampore Beau-	37'1	39:0	-7.86	26.21	18:46	18:2	18-3	-4-18	32:08	8105
1	Dinagepore	Dinagepore	87.8	89-3	9.85	31.01	31.16	16:3	18.3	-8:99	11.91	7'98
1	Виперого	Rungpore	40'0	3918	-16.01	44'96	28195	160	16'0	- 8.03	1878	7.76
	Julpicoree and Cooch Behar.	Julpigoreo	53'6	4918	-9-33	62:34	83 02	\$0°7	19.6	-1'35	19-92	18 87
1	Darjeeling Hill Tracts	Darjeeling	61.0	66.0	-10.95	95'02	74'07	2618	82.8	-12.99	40107	37146
1	Purneah and North Bingulpore.	Purnoab	2917	27*8	+8'75	27-90	86.41	15.0	13'6	8:37	16'61	9104
	Mozufferpore and Dur- bhungs.	Durbhunga	2516	39.0	+4-63	19:94	84'77	14:3	16'2	-3.75	11'37	8-82
	Chumparun	Motihari	2513	36'0	- 8'59	#1 70	10 11	18-9	16:0	-0.10	11.68	11'76
1	Sarun	Chupra	25'8	39.0	+6'94	18:98	34'89	16-9	. 16'5	+3'60	11:46	18'06
1	Shahabad	Dehroo 3	*****	111100		*****	******	*****		*****		,
		Bunny5	37.7	31.8	+1.80	17'81	10'01	17*6	37-8	-0'86	11.84	11.18
	Gym	Gyn	26.5	29 5	.+9:00	18'94	87'94	18%	17'9	. +4'88	12.12	16:88
		Bankipore	37.6	30*1	+10.81	19:16	39.99	16:7	10.9	4-3-47	11:86	10.26
	South Bhaguipuro and Monghyr.	Bhagulpore	31.3	89'8	+3'08	20.07	22'13	15.6	18:0	-1'57	1193	18'04
,	Southal Pergunnaha		34 8	40°3	+1'54	23.87	35.41	18'8	21.9	-0.80	12'63	
A	Hasaribagh		40.4	38*0	+0 48	22 61	23.00	83.0	32.0	+1.87	13:71	14'69
CHOTA	Lohardurgu and Man- bhoom. Singbhoom		37'9	41.0	+0:35	28:01	28-47	21.6	23:1	+1.46	12:97	16'48

Table of Rainfall recorded at Station

eteorological division.	District.	Station.	1	9	8	4	5	6	7	8	9	10	71	18	18	16	18	16	17	18	19
21806	Pooree	Poorse Khurdah	***		0.08	0.23	4°28 4°14 1°90	0°88 0°70 2°20	0:40	0°11 0°58 0°47		0.07	0.00	0°49 0°06 1°00	1'76 0'17 2'86	0°18 0°46 6°90	0126 U 60	0.01	0.50	0.01	0:33
-1		False Point Honkitols	0.02	***		0.10	0.82	2.10 2.20	1°16 0'85	0126		0.37	***	0.82	1107	0.50	0'54	0.03	000	0.50	1'94 2'66
	Cuttack	Inentsingpore Hanki Cuttuck Kondrapara	***	***	101	0.80	3103 5147 0171 0106	0°10 0°58 1°52 1°04	0.70 2.66 1.65 0.63	0.15	1:64	***	0.18	0°10 1°60	0°80 0°20 1°00 1°70	0.99	0.50	***	0.50 1,36 5,00	1°80 0°45 0°26 0°40	0.10 0.34 0.10
*	Balasore	Chandbali Bhuddruck	0'20	•••	0°20	0°80 6 18 0'30	1.90 1.100	0.81	8°80 - 0°25 0°12	1.10	0.10	***	0.4,	0°76 1°50 0°40	0°56 2°17 0°32 0 40	0°23 0°40 0°59 0°07	0*10	0.40	0'81	0°28 0°25 0°30	3'03
200	1	Rainsore Jelinsore Barrpodah	0'17	0.80	0.12	0.76 0.20 0.26	0196 0142 0 80 0190	0°80 0°38 1°00 0°30	0.18 0.18 5.11	0108 0138 0167 0150	0.00	0.00	0.92	2160 0'80 1'50	0.19	0.88 0.88 0.99	0.15	0.58	2'58	0.15	0 70 0 30 0 30
Bangal.	Midnapore	Contai Sauger Island Tamlook Midnapere	3010	U*85	2.80	0°11 3-42 0 60 0°24	0.03 0.18 0.80 0.08	1.01 	0°20	0'14 0'95	0.06	0.19		3'41 2'09 1'60 0'16	0°21 0°28	1'26 0'23 0'00 1'01	0102	0.08	1.40	2:76 0:3.) 2:00 1:02	0°92 0°90 20°10 1°71
	24-Porgunnaha	Ghattal	0.10		0.81	0.79	0 26	0.07	0'20		0.11	***	7,1	0.02	0.77	0.00	0.34	0.11	0-17	2'04	8.1
		hour. Alipure Jail Barrackpore Dum-Bum	0103		1°10 0'60	7.99 9.85 7.99	0.85 0.83 0.93 0.93	0.10	0.15	0'45	0°03 0 40 0°20	0.03	0108	0.98 0.10 0.10	0.03	0.45 0.26 0.48	0.45 0.45 0.8h	0°18 0°05 0°26	0.01 0.73 0.03	1.10	3.3
	Howrab	Howrsh	(112)	0.04	0163	3 29	0.88	0 17	0.10	0103 0124 0147	0.11	0.01	0:21	0:41 0:41 0:05	0.03	0.84	0.40	0.19	0.18	1°14 2°01	9.8
	Hooghly	Bernmpore Hooghly	0.02	0.08 on a 0.15	0.47	0.88 0.88	0°83 0°27 0°73	0°23 0°14 0°27	0.18	0°24 0°42 0°26	0.03	80°0	0.04	0°08	0.01	0.03	0:70	0.03	0.12	1.18	41
	Burdwan	Culna Burdwan Curwa	0.22	0-03	0'69 0'83 0 0 0 0'25	0120	0407	0.88	0.09	0.12	0 05 0 07 0 35	0108		0139	0.82	1.10	0185	0°16 0°50	0'45 0'45 0'55	1'45 1'-0 1'87	4101
	Bankoora	Bankoora Bishenpore	0.40	0103 0106	2.50	0.30	0.30	0°11 1°32	0.81	0:07	0.15	0.40	0.25	0'31	•••	0 80 1'00 0'31	0°80 0°36 0°50	***	8:45	1.51	41
	Beerbhoom	Maliara Kliatra	**	0.91	1187	0.18	0.40	0.19	0.36	0.18	0.10	101		0.18	D1A7	0107	0.51		5.99 1.92	3'70	0
	Nuddea	Bongoog	0.10	0.93	0.20	1'20	0.29	0 00	0.19	0.07	0 00		:.	0.70	0.47	0'07	0 15	0.50	7.11	8:37 9:37 0:55	5. 3.
		Ranaghur Lishinghur Choonianga Meterpere	0.50	**** ***	0.08	0.50 0.20 1.72 0.81	0.02	0.70	0000	0 15	0.08	401		0'24 0'07 0'11 0'2, 1'79	0.39	0'87 0'82 0'62 0'21 0'41	0.15	0.42 0.43 0.35	0'3d 1'12 0'70 0 11 0'21	2136 0130 0165 0167	0'
	Khooina	Satkira Bagarhat Khoolna	0.51	0.05	0 90	3'85 0'16 1'98	0.80 9.80	0.11	0.19	0.08	0.13		0.00	0.32 0.02	0.02 0.18 0.41	0.22 0.03 0.03	0·17 0·72 0·02	0°08 0°37 1°10	1.83 1.74 0.80	0°78 0°88 0°70	8.
	Jeanore	Natull January Jieudah	9°03	0.04	0.05	0.11 0.119 0.119	0'21 0'15 0 12	0.02	0.10	0°13 0°05 0°30	0'53 0'09 0'11	***		3,90	0.18	0°80 0 58 1'04	0° 18 0 67 0 07	0°09 0°07 1°59	1.92	0.38	0.0
No.	Moorshedabad	Magoorah .	0.50		0.00	0.10		0 12		0105		***		0.25	0190	0.08	0.18	*	3.80	1.10	01
		Kampore Haut turhampore Lainagh Azmagnage Jungapore	0147 0104 0115	0.01	0°13 6'04 1'8	0°95 0.79 0°35 0°18	0.04	0.01	***	0106	0.51 0.33 0.33	0.04		0.00 0.11 0.11	111	0'08 0'49 0'93	0.01	0.52	0°75 0°82 0°30 1°50 0°52	0'27 1'93 5'81 4'22 0 96	0' 0'
ANT BENGAL	Chittagong	Lalgoin Cox's Fnzar .	0105	0.30	0.17	1.53	0.43	0.03	ยาตา	0.10	0'4	0.08	0148	0.18	***	0.09	0.93	0105	8°45	3.94	27
	Chittenong Hill Tracts.	Chittagong Rampumati Ruma Agartola	0104	1'40	0.13	0'07	0 06	4518	***	0°13 0°28	0.11	0 04	0.45	0.0;	0°38 0 45 0°58	0.21	0,18	0.00	6'15 1'31 2'65	3.30 3.30	0.
	Hackenrunge	Patunkbally For zepore Burrisal	0.0×	1'00	0.07	0.20	0 10 0 30 1 10 0 13	0.04	0.18	0°37 0°45 0°40	0.30	60.00	0.18	1:10	0°15 0°35 0°52 1°07	0'85 0'85 0'48	0.89	1 05	\$.87 \$.80 \$.00	0167 0131 0131	01
	Noakholly	Nookholly	0.08	000	2108	0'15	0.73		0.87	0.50	0.10	0.03	0.40	0196	0'71	0 127	2.41	0.92 1.00	0.00 1.00 3.00	0183	02
н.,	Furresdpore	Madaripore	0.00	683 883	0'82	0:19 0:19	0.81	***	0.10	0"(04	*0:03 0:14	0'17	0.53	0.15	0 96	0.21	0.49	1.11	5.10 2.10	1.12	0.0
82	Daoca	Munshaunge Dacea	0120 0120	***	0106	0.28	0°11 0°17	0.03	0.01	0.01	0.10	0'08	107	0°0d 0°42	1.10	0.67	1 65	0.75	3'79 3'36 7'04	0153 0125	013
	Cemilla	Naminatinge Manickstunge Comil a	0°10	100	9121	0.82	0.10	VIV.	0.08	0.03	0100	***	0.15	0149 0177	1.94	1124	2 80	0130	6 06 3°30 7'94	2*82 1*63	UT:
	Mymensugh	Chaudpore Brahmunbern Kishwegunge	0 27	***	0.72	0.12	U 18	0 18	0.13	0.08	1725 0109	0.10	1.75	***	2°50 1°35	0°15 0°35	1185 1100	0.52	3185	1 105 (F'80)	1 01
	571081	Atia hty mountingly Jen als ore	0.13	***	0104	***	0.50		0'00	01145 0 0H	0°34 0°07		0*14	0.05	0°78 1°12 1°46 0°11	1'89 0 78 0'07	0'77 1'34 0'27 0 80	1'04 0'47 1'88 0'06	0°33 0°63 0°54	0'47 0'47 0'47	(1)

Evolunation—indicates that no rain has fallen. If the return for any day has not been received the corresponding space w

n Bengal in July 1833.

-			1			1		1	1		5	8	for	Į da	7.	88	to			1
91	23	88	24	25	96	97	98	99	80	81	Number of rainy days.	Average number	Total rainfall the month,	Average rainfall the month.	Heaviest rainfall during the month,	Total rainfall from lst January 1883 up to 316t July 1883.	Average rainfull front of January up Shi July 1863.	Station,	District.	Meteorologi eal division
0.83	0°97 9°10 1°80	\$1000 00045 000770 000770	000000	0°10 0°64 0°78	0:35 0:33 1:36 1:17	2:83 0:67 1:50 0:18 0:75	6.98	0.01	0°02 0°02 0°02 0°05	0°88 0°13 1°20 1°63 0°78	25 24 13 22 15	18'0 21'8 16'2 17'2	13'86 14'63 14'71 15'5! 16'38	10:40 13:20 11:58 14:38	4.84 4.14 2.84 3.84 8.10	84'61 86 66 29'149 40'33	23:86 24:30) 24:30)	Poeros. Khurdah, Banpur Palse Point, Bookitola.	Pooreo .	ORIGOA.
100 d 100 d 100 d	0100	0.10	0:05	0°J1	0°17 0°48 0 80	0 80 9'36 0'18 0'20 1'25	0.18	0°10 0°02 0°79	0°01 0°83	0168 0103 0152 1140 0165	18 21 24 13	15°1 12°8 16°2	11:83 13:65 14:32 14:61 15:7;	10:98 12:77 12:22 14:28	5.03 5.47 1.64 8.30 3.30	45°49 3 °83 42'06	29 40 27 ND 33 43	Jagataingpore Banki, Cuttack, Kendrayara, Jajpore,	Cuttack	
181	0180 0162 0170 0180	0.16		0.00 0.03 0.18 0.23	0°90 2°49 0°70 0°19 0°70 0°95	0.20 0.11 0.20 0.18 0.05	0 64	***	0°48 0 48	1*90 0*48 2*50 0*90 1*66 0*92	17 17 20 24 22 23	13'4 17'7 16'5 19'2 16'2 23'8	13:83 11:01 11:77 10:73 15:24 14:07	13:07 12:98 12:76 11:01 15:76 13:38	2 20 2 49 2 50 2 60 2 69 2 68 2 14	46°83 87°21 87°15 40°98 40°38	241697 81145 281687 88125 281077	Chandbali Bhuddruck, sorah, imhasora, Juliasora, Baripodah,	Balasore	-0
16.0	0'81	8°24 8°48 1°00 0°36 . 0°53	*****	000 000 000 000 000 000 000 000	0.02 1.20 0.11	0°13 0°97	0.00 0.41 1.08	0.18	0.00	1:07 8:84 3:20 1:09 1:90	21 16 11 23 16	16°1 20°9 12°6 11°5		14 NG 15 G4 11 04 11 33	3'41 3'54 3'20 1'71 2'11	46'34 41'38 32'45 26'61 27'70	84184 85135 80 5h 81 72 83145	Contai Sauger Island. Tumlosk. Melnapore. Ghatal.	Midnapore	SOUTH-WEST BENGAL.
	1'48	1'39	Oran	*****	*****	U*48	0.09		0.30	1.90	20	82.2	18:90	14'68	3:06	33139	85.90	Diamond Har-	\$4-Pergunnahs	
D-64 D-61 D-61 D-63 D-73 D-73	0.41	1°19 0°70 0 58 0 48 0°67	0°03	******	0°20 0°78 0°32 0°51	0°33 0°12 0°25 0°57 0°29	1:43 1:00 0:38 0:48 0:38	0160	0'24 0'72 0'95	1'05 2'05 1'74 5'35	27 27 23 23	24°2 19°6 22°1 20°1	16:27 15:55 17:59 15:45 23:09	13 33 12 14 12 09 10 99 12 56	2:50 5:10 4:25 5:10 5:68	33'31 35'38 35'34 35'21 46'36	34'61 31'42 32'85 31 98 34'90	Donr. Allpire Jail. Barrackpore. Dom-Dum. Barasot. Buscerhat.		
718	6184 0135	0178 0160	40000	0.01	0.30	0 46	0.35	8:00	0.33	2.32	25	24'1	15168	13.35	2.01	34.31 81.81	35°21 33°97	Howrah Mohoereka.	Howrah	
1°45 0°168 0°184	0.17	0.35	0'01	9 05	1.08	0.03	0147 0149 0184	1.18	0.58	1.24	80 22 10	23'8 21'4 19'2	75 40 50.99 10.13	12°58 11 86 12 33	4°50 9°15 3°59	36.19 38.18	32°25 34 73 32°70	Serampore Hooghly. Jehanabad.	Hooghly	-
35	0.04	0°02 0°70	0.10	*****	0:33 0:09 1:55 1:45	1.65 0.10 0.11 0.17	0.18 0.15 0.49 0.09	0.02	1'48 1'18 0'03 1'77	1°03 3°53 2°9, 1°88	20 27 19 20	16'6 21'2	17:30 21:84 12:32 23:67	10°7± 12°42 10°06 12°49	4'85 10'31 2'97 0'80	36'66 69 92 26 39 52'67	29°35 32°44 29°08 27°77	Cuins Burdwan, Cutwa. Rancogange,	Burdwan	-
165 107 161 170	0.02	0 46 0147 0145 1185	0.5:	0 07	2.30 0.20 0.47 0.87	0.02	0.30 0.37 0.18 0.10		2.45 0.36 1.26	0'95 1 15 2 00 1 25	10 17 18	90°9 16°0 19°7 19°3	19,00		4.25 5.00 2.44 2.79	47'40 24 02 35 52 81'95	30°49 33°62 31°51	Bankoora Bishoupere, Mulura, Klistra,	Bankoora	
130	0.72	0.08	*****	0.08	2.24	0.45	0.19	***	1.55	1.11	20	18.8 45.2	15.09 12.09	15.00	3'12	457H	23°30	Bh. Sonry Hetainpore.	Beerbhoom	100
186	2'40 2'00	0.16	0.98	**************************************	1 80 1 80 0 94 0 70 0 36	0.63 0.53 0.18	0°11 0°09 0°14 0°16 0°10	0.10	0'40 0'03 0'03	0.19	15 23 15 18 16 17	15'8 15'0 21'3 17'4 17'8 10'1	17'08 1148 1113 117	10.02 10.01 10.11 10.01 10.01	2'40 6'62 2'04 0'8' 1 72 1'70	30'25 37'31 14'07 24'91 26 68 80 95	31.93	Bongong Ranaghat, Kishnaghur, Chooshanga, Mohorpore, Kooshtea,	Nudden	× ×
20	0.78	0.93	0.70	0 12	0.12	0°38 2°77 0 57	0.18	0.08 1.74	0°05 0°28	4°88	25 25 24		13 32	12'47 14'01 12'04	4'3a 8'77 1'10	46 22 38 71 31 51	37'91 43'66	Satkira Bagirhat.	Khooina	
31 36 36 37 38 38 38 38 38 38 38	0°89 0°63 0°85	0.57	0108	0.07 0.38 0.10	0°25 1°57 0°36 1°01	1.55 0.08 0.19 0.28	0°15 0°14 0°08 0°19	0.17	1.72	0°82 1°50 0°08 0°75	23 27 28 19	18:7 25:3 18:6	10.01	9:77 11 65 9:76 10:90	1192 2110 2105 3166	29"18 33"38 20"34 42"33	35'69 40'10 30'24	Narail Jessore. Jhoridali. blagoorah.	Jessore	
74 74 74 74 74 74 74 74 74 74 74 74 74 7	0 65 0 65 0 12 0 12 0 17	0.84	0°48 0°18 0'30 0'08	0'41 1'05 0'02	0.50 0.50 0.50 0.59	0°07 0°38 0°18 0°42 0°08 0 18	0°17 0°06 0°02 0°57	0'50 0'86 0'86	0.10	2°30 2°47 0°98 2°20 0°44 0°39 0°57	19 16 23 11 20 1/ 21	21.0 15.3 18.7 17.0 19.0 18.6 17.8	12.96 9 % 11.33 12.13 8.56	12.39 10.01 10.01 10.01 10.11	3.50 4.21 1.83 4.22 1.85 8.49	31'40 31'71 26'95 24'33 29'59 24'94 28'04	30 45 27 40 29 00 27 14 27 12 27 12 27 85	Kandi Rampore Haut Berhampore, Lathagh Azingunge, Jungipore,	Mooreh-clahad	
161	0.10	0.528	1.62	# 40 0.143	0.19	0°27 0'07	1.18	2.81	1163 1.02	4:31 3 19	200			60183 83'00	8 72	101 21 89 25	92'30 61 NI	Laigola. Cox's Bazar Chittagong.	Chisenmone	BART BRE-
117	0.08 0.08 0.08	0.11	0 08 0	0164	0.07	0.50	0.01	0°24 1°45 0°31	1'10 0'45 0'48	0.70	70 70 70	25'7 21'4 19'5	14.07	19'59 10'73 11'95	7.95 7.46	61-19 881-16 40-26	95.00 99.00	Rangamati. Ruma. Agart-la.	Chittagons Chittagons in tuil Practs.	Q&L.
17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	0.722 9.51 0.81 0.81	0°08 0 87 0 14 0°97	080	960 MH 2	0.07	0.11 0.16 0.39 0.35	0°04 0°22 0°41	0°33 0°05 0°82	2°40 0°07 0°26 1°45	0.70 0.18 0.20 0.74	11 27 27 12	26°5 24°3 26°6 26°6			4:00 2:04 3:05 1:00	52'43 36 82 47'72 65 77	60°40 45°07 48 91 56°63	Patuakhally Perozep re Barriad. Bhola.	Baokergunge	٠
110	0.08	10'01	0.81	0 02	0.19	0.82	0.00	1'11 1 1'39	0.00	2 43	2d 20	25'8	31,00 52,78	20.75	9.00	87°63 83°27	- 4		Noskholly	
10	0.18 0.09 0.09	0.27	1'00	88.1	0.07	0.58	0°46 0 50 0°11	0.81 0.02 0.98	1.50 1:50 0.05	0°88 3 47 0 #1	24 24 23	19.4 21.5 19.4	15'68 15'21 15'89	13:17	5°16 3°47 2°79	45°89 40°15 42°94	44148 48135 88188	Madaripore Furremipore. Goulundo.	Furreedpore	
0 18 j	0.39	0.03	0:79 0:83 0:53 1:68	000 F1 454724 064 68	0 11	0.10	0°16 6°60	0.30 0.30 0.30 0.30	0.27	4'62 1'61 4 61 0'21	21 21 21	10.0 51.2 10.0	19 00 10 00 10 00	13.08 15.03 16.82	5 34 7*04 6*06 3*36	40'79 63 13 84'20	88'41 46'98 87'63	Munshigungo Ducen, Namingungo Manickgungo,	Dacca	
0.18	0.10	0.30	0.02 0.02 0.02	0.01	0.10	0'01	0.38	0.40 0.49 0.49	9.46	1:18 3:50 0:30	25 25 24	25°0 23°4 21°3	23'27 23'40 12'34		7'84 5'20 3'38	63°87 5× 65 52°66	84°28 85'71 40'09	Comilla Chandpore. Brahmunberia	Comilia	
183 183 184 184 184	0'50 0'16 0'07	0:03 0:47 0:45 0:09	0°23 0°46 1 73 0 46	0°15 0°18 0°15	0.03	0184 0100 0110 0105 0160	0°09 0°18 0°10	0°59 0°27 0°18	1°55 0.52 0'30 0'07 0'64	0.87 0.24 0.41 0.07 0.18	18 20 38 23 23 84	18.9 10.4 10.4	10°34 17.47 11°13	13:84 11:33 17:20 13:25	7'29 8-63 1 93 2'04 2'04	49:38 30:58 30:58 20:74	93.34 30.43 44.00	Kishorogungo, Atm. Myspensing, Jamaipero, Notrokom,	Mymousing	

Table of Rainfall recorded at Station

		1								1											
eteorological division.	District.	Station.	1	3	8	4	8	6	7	6	9	10	11	13	18	14	18	16	17	18	19
ORTH BEFOAL	Pubna	Pubna Serajgunge	0.13	***	8+0	0.87	+0+	**		0.11	0.06	0.11		1.82	0.00	0.80	0.91	0.81	1.07	0.50	0.83
	Bogra	Sherpore Nowkhilla Bogen Panchbibi	0.04		1'86	0'81 1'69 0'41	0.04	100		***	0°85 0°05	0.02		***	0.10 0.31 0.19 1.10	0°78 2°03 3°48 0°50	0.84 0.58 0.41 0.30	1.80	1'40 8'03 4'83 1 43	0.83 n.16 0.40	0.1
47	Rajehahye	Beauleah Nattore	0.00	***	80	0:40	0.30	0°17 0°10		***	0.32	0.18	***	0'08	0.40	014	0.10	80.0	1'91	0.32	0.1
	Maldah	Maldah	0.03	***	0'03	***	***		***	4+1	9186	***	***	0:04	0.09	404	1.14	0.80	4.85	0.81	1
	Dinagepore	Mohadebpore. Chu:amon Rasgunge Dungepore Baloorgint	000 10. 007	***	***	0°96 0°22 0 13	0.13	0 04	***	0°85 0°30 0°01	0.00	***	***	***	0.01	0.80	0'40 1'9H 0'44 1'03	1.80 0.80 0.80 0.89	0.40 0.48 1.81	1.00 2.33 0.67 1.00	0.0
	Винирого	Bhawanigunge Rungpore Kurigum Bagdogra	***	0°30	***	1'40 0'04 0'85	400	***		***	0.14	***		0.11	0°16 0 78 0°28	0.08	0.11	0'44 0'60 2'18	8'81 2'13 0'85 1'75	0'01 0'06 0'78	::
-	Julpigores	Julpigoree	***	***	***	0.88	1.46	0.07	0.05	0.07	0.13	0.44	0.63	***	0.06	0164	0174	1.99	4153	0.87	
	Cooch Behar	Dinintta Cooch Hehnr Mickligumre Mutabhanga	0.01		***	0.80	000 000 000 000 000	0.03	***	0.05	0:84 0:03 0:03 0:60	0.32	***	***	***	0.05 0.40 0.12	0.40 0.79 1.05 0.59	7'u1 7'80 6'98	0'62 0'56 0'71	1'26	0
	Darjeeling Hill.	Buxa Siliguri Darjeeling Kaimpong	0.42	0.28	0.02	1.03	1'60 1'48 0'72 0'19	0.53	1°30 0°07	1'92 0'03 1'18 1'00	0.00	4.46 0.42 0.52 0.53	101	0.03	***	0.80	0.9:	88.0 10.0 10.0	0.12 0.45 0.12	3.80 2.08 0.03	1
ern Benar	Purneah	Armeen Purnesh		***	0.10	***	0'60 1'58	0.03	***		0.04	0.00	**	0.88	0'25	072	0.27	V-78	0196	7.00	0
	North Bhagul- pore.	Maddaporo	0°07		0.35	***	0.08	0.01	***		***	***		***	0.28	0.11	***	1.89	0.08	0.10	01
	Durbhunga	Tajpore Durbhunga Madhubani	***		0 20	0.28	0.32	0.10	000	***	0.10	***	***	***	0168 0146	000	0148	0128	1:67	0.03	7.
	Monufferpore	Sitamarhi Mozusterporo Hajiporo	00 v	***	0.03	0.70	0.15	0.42	000	000	***	400	046	***	0.84	0.14	0.72 0.72	90.0	1°23 0°48	0.41	0
	Chumparun	Motihari Bettush Gopalgunge Sowan Chuprah	***	•	0.04 0.03 0.03	0'10	2:42 2:05 0:55 0:00 1:85	0:89 2:50 0:85 1:37 2:30	0.10	10	***	***	***	***	0.45	0 66	0.50 0.68	0.08 0.08 0.08	0°45 0°53 1°00 8°23 0°86	0°23 0 ±5 2°19 0°09	0
VEN BRWAR	Shahabad	Buzar Dehree Blubooah Busmeram Arrah	### ### ### ###	***	***	0°06 1°28 0°67	0.65 0.60 1.60 0.80	1'27 1 30 0'39 0'02	0.08	***	•••			***	0°04 u°88 0°09	0.13	0°02	0'71 0'86 0'20 0 15 1'08	0:88 0:44 0:90 0:09 0:30	2.82 1.98 1.20 1.90	3
7	Gya	Aurungabad Sya Nowadah Jehanabad	6.0 0	0.40	0°03 0'14 0'41	1'42 0'09	0'82 1'80 1'15 1'69	0.80	***	440 101 904	0'11	100	***	0.18	***	0.19	0°56 0°58	0°18 0°17 2'18		1.35 1.35 3.71 1.83	n.
Q*	Patna	Patna Dinapore Hielar Barrh	***	0.13	0°10 1°79	0.04	0'85 1'00 0 01	0-17 0-20 0-64 1 33	0.04	0'04	0.03	4.000	***	***	0°37	0.68	0.10	0.19 0.10 0.10	0.00	0°31 0°03 2°30 1°36	0.
	Monghyr	Hegenseral Monghyr Jamus	***	***	0.02	0 08	0.16	1.14	***	0-14	0.03		***	0.13	0.11	***	0.42	0.20 0.0 0.88	1'41	0.19 0.03 0.03	o'
	South Bhagul- pure.	Bhagulpore			0.12	0'11	***	+01	*00	0.12	0.21		***		***	0'06	0.58	1°70	0.88	0.14	
	Sonthal Pergunaha,	Rajmehal Godda Pakour Nya Doomka	0146 0147	0.11	0 47 0 57 0 56 0 14	0.45	1.21	0'04 0'08	0.08	0.56	0.18 0.19 0.19	0.03	***	0.88	0.85	0.08 0.07 0.84 0.02	0°36 1°88	0.39	1.67 0.31 1.15	0181	0 1 1 3
UTIA NAG-	Hazaribagh	Jamtara Pachamba Hazaribagh Seemtagurh Mowdee Hills	0.18	0.90	0.09 0.04 2.10 2.20	0.09 0.09 0.09 0.09	0'21 1'51 1'10 0'22	0.80	0.31 0.17 1.47 0.19 1.04	0.18 0.40 0.13	0.43 1.25 0.71	0.10	0.13	***	0.01	0'41 0'36 0'30 0'16 0'13 0'23	0.88	0.08	3.80	0:33	0 10
	Lohardunga	Jhoomrah Hills Ranchi Palamow	0188	***	2104	1°11	1.80	0.37	0.80 1.80 0.80	1.60 0.83 0.07	0'25	0.40	***	0°50 0°55	0.40	0.48	0.80	0.18	0.18	0.0%	I I
	Singbhoom	Chyebesse	,	0.00	0.18	1'90	0.49	0.00	1.88	0.93	079	0.30	•••	445	0.13	0.19	0.08	0.11	0.09	0.01	0
	Manbhoom {	Purulia	0.85	0.11	8140	1.79	0.88	0 06	0.60	0.15	0.58	***	199	0'18	146	0.17	0.21	6'08	1-42	1170	5 0

Replanation ... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left

METHOROLOGICAL OFFICE, BENGAL, The 14th August 1883. Bengal in July 1883—concluded.

-		1		1	1		1		1		le,	jo	1 9	1 5	- ,	2 2	to	1		
	88	23	34	26	28	27	28	89	80	81	Number of raing days,	Average number or	Total minfall for the	Average rainfall for the month,	Heaviest rainfall	Total rainfall from 1st January up to 81st July 1883.	Average minfall from 18t January, up 10 31st July 1883.	Station,	District.	Meteorolog cal division
1	0.08	6:08	0136	*****	1.10	0'19	0.08	***		0.11	19	20°7 15°5	8.63	10°73 11°13	3.00 1.85	31*71 86*70	37°11 34 58	l'ubna Serajgunge.	Pubns	NORTH BE
-	0°40 0°03 0°61 0°17	0.03	1°53 0°20 0 27	0.08 0.08 0.90	******	***	0°18 0°15 0°04	0.08	0.62	0:61 0:12 0:50	18 20 17 16	18:4 20:1 19:2 10:3	9°13 8°47 10°19 8°09	\$4'62 11'80 16'75 13'26	2163 4188 1163	24*18 26*63 34*31 24*11	40107 85 %9 48 77 34 69	Sherpore Nowkhilla. Bogra. Panchoibi.	Bogra	10-11.129
	0.00	*****	0.18	0.80	0.03	6168 0130	0.09	11.26	*.,	1'50	21 13	10-0	5°66 7'85	11'61	1:02	19°98 29 64	32.40	Beauleah Nuttore.	Rajahahya.	
	0.83	0 83	*****	0.83	0.09	0.00	0'43	0.03	0.30	0.90	21	50.2	10.62	10.00	4'22	25.85	38.00	Maidah	Maldah.	
	0.07	0°89 0°02 0°04	0°15 0°45 0°76 0°09 1°60	0.03	0°04 0°31 0°02 0°45	0.42	0.28 0.08 0.03 0.03	0.03 0.00 0.00 1.15 0.19	0.37	0°31 1°48 2 38 1°13 1°30	90 14 21 15 9	15°8 18°3 19°6 19°4	9°53 7°44 7°30 7°43 7°34	10°22 9 27 11°21 15°20	1.80 2.33 2.88 1.60	20100 2753 20140 33135	33.44 33.44 43.93	Mohadebpore Churamon, Raigunge, Dinagepore, Baloorghat.	Dinagepore.	4
	0.07 0.09	0.13	0.80	1:20 0:13 0:15	0.04	0.08	1'41 0'13 0'15	0.08 0.70	***	0.50 0.52 0.50	13 17 8 12	15:0 15:0 15:0 15:0 17:3	10°40 6°63 4°28 16°32	12:5% 16:79 15:33 13:94	2:81 2:13 0:05 3:02	89 23 35 68 44 64 45 05	41°43 05°37 07°62 58°70	Blinwanigungo Rungpore, Kurigram. Bagdogra.	Rungpore.	
	0169	0'41		2.78	2114	0.03	0.01		1'46	4.72	24	21.8	\$3.00	25109	4'72	72'51	72.82	Julpigoree	Julpigoree.	
	0.10	0°23 0 80	0.13	0.80 0.20 0.80 0.72	0°29 2°78 3°80 2 46	0.01 9.05 0.09	0.00	0.15	2.22	0.10	19 17 17 21	10°S 20°4 20°5 21°5	18:80 23:20 14:54 18:21	15°11 23°06 21°65 22°46	4153 7101 7130 6198	5112 69 57 55 15 68 72	70°35 80°23 60°97 75°92	Dinhatta Cooch Hehar, Mickingunge, Matabhanga.	Cooch Behar,	-
	0.82	9:80 9:02 0:86 3:87	1'04 0'41	0°40 0°73 0°99 1°90	0°72 0°80 0°72 0°18	0.18	3°45 0°03	1'60 1'20 0'82	3.45 1.26 0.21	0 18 0 13 0 45 0 53	20 23 25 21	25.4	35*71 19:98 19:26 12:89	48°82 29°87	0'40 3'90 2'09 1'87	71.00	70'05	Buza Silguri. Darjeeling. Kalimpong.	Darjeeling Hill.	
4	1.10	0.89	0.18	0.46	0.37	***	0.04	0.40 0.42 0.62	0°10 0°45 0°03	0°59 0°40 1'39	18 10 18	2017 1616 201	10°84 7°41 8°90	16°25 16°67 14°09	3.20 3.20	39189 41 28 23189	40°99 37°96 32°24	Kissengungs Arrarealt. Pu-neah.	Furzenh	North BAR
	2'90	0:20	0.40	0.12	1.15	0.02	0.52		0.60	0.95	20	1518	12.21	12:29	2:90	40'72	27'14	Muddapore	North Bhagul- pore.	
	0.41	0.50	0.80	0°65 0°09 0°04	0°12	0.51	0:20	0.30	0.80	0.38 0.88	19	13.6	6'05 10'88 6'11	11.71	3°10 2°97 1 3°5	\$3.80 \$7.32 \$5.70	20.01	Scopool. Tajpore Durbhunga.	Durbhunga.	
	0.15	0.07	0.50 0.02	2'86 0'88 0'80	0.30	0°31 0°32 0°07 0°36	0.39	0.48	0.50	3°96 1°59 0 44 0°36	11 21 15	14'3 11'5 15'4 17'2	7:03 8:83 6:83	10°17 10°38 10°74 11°80	1:50 1:27 1:60	31'98 18'71 82'45 25'13	24 58 23 77 22 18 22 16	Madhubani. Sitamarhi Mosufferpore. Happore.	Mozufferpore.	
	0°27	0.02 0.77 0.94	01000	1.05 0.82 0.43 0.03	0'85 3'20 1'43 3'72 8'33	0.09	1'45 0'54 2'19	2.22	1'79 0 50 0'73 1'10	0.00	13 16 16 16	18.0 18.1 18.2 18.1	10°94 13°00 10°02 13°00 16'18	10.67 12.76 12.76 11.76 10.10	2149 3120 2123 3173	21:09 24:51 20:07 24:30 80:02	28728 27702 27720 27720 27720 27720 27720	Motibari Bectinh. G. palgunge. Sowad. Chupra.	Chumparun.	
	0.08 1.30 0.04 0.17 0.64	0°12 0°06 0°43 1°02	0.86 0.53 0.50	0°50 0°15 0°17 1°06 0°03	0°27 0°47	0°29 0°20 3°10 0°90	0°45 0°90 0°08 0°66 1°05	0°30 0°00 1°57	0°16 1°92 0°16 0°16	0°57 0°58 0°78 0°53	22 19 16 18	17.2 18.8 18.0	13:02 13:80 13:86 8:73 8:23	11°63 18°47 12°46 12°46	2'82 1'92 3'40 1'50 1'67	23.82 19.84 19.21 22.13	21'00 20'44 27'27	Buzar Deliver, Bhussonh, Basseran, Arah.	Shahabad	SOUTH BRUAR.
	0.64 1.79 1.79 0.52	0.31 0.09 0.31	2.18 3.08	0.42	0122 0170 2176 0185	0°12 0°29 0 45	0°23 0°23	0.58	1'98 1'23 0'38	0.80 0.80 1.11	10 10 21 14	18'4 18'7 13'8 13'9	11'19 18 68 15'74 19'91	12:37 11:65 12:65 12:45	1:98 2:37 2:76 4:19	\$8.50 \$8.10 \$8.52 \$8.52	20173 21144 2018 21105	Aurungabad Ova. Nowadah, Jehanabad.	Gya.	4
	1 75 2'55 0'53 8'25	0°47 1°00 0'82	0°87	8.88 0.09	0'97 2'70 6'45 0'45	0°08 0°05 0°18 0°37	0.32 0.10 0.13 0.18	0°40 0°65 0°60	0.18 0.18	0°67 0°43 1°70 0 70	19 18 20 18	18'1 16'8 16'6	9:30 10:40 92:15	10.12 10.19 19.39 19.39	1°75 2°85 6°46 3°25	96:91 23:30 49:98 27:43	20°68 20°79 34°46 21°55	Patna Dimport. Behar. Barrh.	Patne.	
	0'47 0'16 0'71	0.41 0.53	0.81	******	0°29 0°28 8°98	0.84	0.07	000	0'08	1°14 8°70 1°93	17 16 16	17°1 19°4 18°3	11'21 8'20 14'24	11:21 1:36 12:37	3:35 8:70 3:98	83:51 20:10 23:57	21'48 22'04 83'47	Beegooserai Monghyr. Jamui.	Monghyr.	1
	0:05	000 000	0.85	0.19	0.09	.0*98	***	0.51	1.50	0.18	16	19.1	7'96	11'16	1.70	24:97	24140	Bhagulpore	South Bhagul-	
	0°87 0°03 0°43 0°46 0°35	0.49 0.11 0.50	1°07 0°68 0°10 1°03 0°75 0 07	0.73 0.16 0.46	0.40 0.89 0.15 0.46 1.26	0°90 0°40 0°47 0°55 0°25	0°40 0°20 0°03	0'45 1'43 0'44 1'18 1'91	0°31 0°57 0°83 0°60	0°89 0°87 0°23 0°81 0°95	18 18 19 28 24	19°8 16°0 17°3 13°6 23°8 21°2	816 12 44 10 78 13 61 14 42	10:98 12:53 11:29 11:77 13:65 11:39	2°85 1'67 1'64 1'75 5'00 2'47	17'81 19'17 20 94 35'27 30'41 88'69	28*45 29:81 22:80 31:40 80:08 27:74	Banka. Bajmehni G dda. Fakour. Nya Doomlin. Deuthur.	Sonthal Porgunnabs.	***
	1'96 5'50	1'51 8' 4 0'80 1'60	0°98 0°17	0.08 0.09 0.09 0.09 0.00	0°38 0°36 0°36 0°40 1°00	0.20 0.20 0.20 0.20	0.93	0°17 8°40	0.20	0'44 1'14 1'60	26 26 21 17	19°4 22°7 24°2 21°0	15.01 11.00 15.08	12'62 15'09 15'02 15'02	1'96 1'96 2'14	25-144 25-14 55-81 50-80	26'73 25'04 25'00?	Pachamba Hazeribash. Seembaseh. Mawdee Hills. JirouarahHills	Hazaribagh	CHUTIA NAGPORE
	0.90	7.20 7.20	0 70	0.74	0:30	1'80 1'62 0'35	0.00	9'87	0.83	1 00	25	68.0 10.0	20.43	12.12	3'04 2'00	40°34 20°63	27°01	Ranchit	Lohardugga.	-
	******	408001		000 000	0.00		3:06	90.0	1'01	1.99	21	21'0	15'92		2.28	39'81	80:45		Singbhoom.	
	1 02	0.00	0.09	v:85	1'65 0 10	0.93	0183	104	0'41	9:04 0:32	92 24	21.1	16'18	11:04	3°40 1°65	27:17	86188 86109	Purulia Golandpore.	Manbhoom.	

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ALEXANDER PEDLER,
Offy. Meleorological Reporter to the
Government of Bengal.

METEOROLOGICAL AND RAINFALL SUMMARY FOR THE MONTH OF JULY 1883.

July is one of the most important months in the year from a meteorological point of view; it is the month which usually brings the heaviest rainfall over the whole of the Lower Provinces, and it is remarkable that, if there are any considerable variations in the rainfall distribution during this month from the normal distribution, they are usually found to remain more or less persistent throughout the remainder of the rainy season. July is the first complete month of the actual monsoon period; for the two branches of the south-west monsoon—the one derived from the Bay of Bengal, and the other from the Arabian Sea—do not usually establish themselves with full force over the whole of the land area until quite the end of June. Considerable importance should therefore be attached to the rainfall for July from two points of view: first, as to the actual amounts of rain received during the month, and to its distribution; and second, to the indications which the rainfall of July affords as to the probable

distribution of rain during the remaining portion of the south-west monsoon.

The circumstances and conditions of the establishment of the south-west monsoon currents in Bengal were fully referred to in the meteorological summary for the month of June; it was there pointed out that the monsoon rains of the Bengal Provinces are brought about by the combined action of the Bay of Bengal monsoon current and the Arabian Sea current. The Bay of Bengal current usually is established by the second or third week in June. The Arabian Sea current has, however, to advance itself slowly across Central India and the Central Provinces, and generally is not fully established until the end of June. In its forward progress it then meets the Bay of Bengal monson current, and the interaction of the two currents gives rise to an eddying motion of the atmosphere over the area of interference. In normal years, with monsoon currents of average strength, the principal amount of interference of the two currents appears to take place over the North-West Provinces, though the extent and position of the interaction will probably mainly depend on the relative strengths of the two currents.

The Arabian Sea current is mainly westerly, but the character and direction of the Bay of Bengal current is considerably modified by the geographical or rather physical features of the country over which it is flowing. Over the sea area (that is in the Bay of Bengal), the current is probably mainly south-westerly in direction, but as it reaches the coast line and advances over the land area, the gradual deflection is clearly marked; it first changes to a south wind, then to south-east, and finally becomes an almost easterly wind flowing up the Gangetic valley along the base of the Himalayas. It will be evident that the extent of the interference between the two currents will vary according to the place of meeting, or rather according to the angles which the two branches of the monsoon winds make at their junction with

each other.

In any case, however, the interaction or intermingling of two currents of moist winds blowing in somewhat different directions must necessarily cause a certain amount of ascensional movement of the air, which will inevitably result in the cooling of the air, and the consequent condensation of a certain proportion of the aqueous vapour in the form of rain; and further, it will probably be true that the greater the amount of interference between the currents, the larger will be the ascensional movement, and the greater the condensation. From these principles, then, it would appear tolerably certain that any marked inrush of westerly winds, brought by the Arabian Sea monsoon current, into Bengal, meeting with the Bengal current, would give rise to heavy rainfall. Further, it would appear that, as the Bay of Bengal current changes its direction, becoming more easterly in its advance over the land area, a greater amount of interaction between the Bengal and Bombay currents would take place in the northern and western divisions of the Province, such as in Behar, in the western districts of Bengal and in Chutia Nagpur, than in, the southern districts, and, other things being equal, condensation would be heavier in these districts. With reference to this latter point, however, it must be remembered that, as the monsoon winds flow over the land area, they part with a certain portion of their moisture, and this to a proportional extent will reduce their power of producing heavy condensation in the districts further removed from the sea.

It must not, however, be forgotten that the rainfall during the south-west monsoon is not a steady and continuous action. As mentioned in the meteorological report for June, "it occurs rather as a series of pulsations or waves of aqueous vapour condensation or rainfall. The intervals between the bursts of general rainfall are extremely favourable to the formation of cyclonic vortices at the head of the Bay, which advance landwards towards the Bengal or Orissa coast, and give heavy and occasionally excessive local rainfall to the districts over which they pass." During the formation of these small storms over the sea area, there is generally a certain amount of indraught towards the centre of disturbance, and, as a consequence, the winds over the land area are light and dry, and give rise to little or no rain. Hence, in the discussion of the meteorological conditions of the past month, the two points which have to be kept in view are—first, the character and intensity of the two monsoon currents from the Bay of Bengal and Arabian Sea; and second, the occurrence, nature, and locality of the small evolutie storms which are so characteristic of the rainy sensor.

locality of the small cyclonic storms which are so characteristic of the rainy season.

The normal distribution of the rainfall in Benyal in the month of July would appear to be influenced by a combination of three effects. It is well known that the distribution of rainfall in any country is ordinarily affected by two causes—first, by proximity to sea areas;

and second, by the proximity to a range of hills or mountains. The districts nearest to a sea area, and those in the immediate neighbourhood of hills or mountain ranges, will receive from well understood natural causes a rainfall larger than the districts remote from the same natural features. The third cause acting in the case of the rainfall in Bengal is the intermingling of the two monsoon currents—the one from the Arabian Sea, and the other from the Bay of Bengal. The effect of this action has been explained previously. Two lines of maximum rainfall may then be traced in the normal rainfall in Bengal during July; there is the first line more or less parallel to the sea coast, and the second line of maximum rainfall more or less parallel to the ranges of the Assam and Nepaul Hills. The line of twenty inches average rainfall during July runs through the Eastern Bengal districts at some little distance from the coast line, the distance from the coast increasing as it moves to the eastward. A second line of twenty inches average rainfall is also found along the Darjeeling Hills, running here almost due east and west. The line of fifteen inches average rainfall starts from Saugor Island, and runs in an easterly direction parallel to the first-mentioned line till near the Tippe ah Hills, when it suddenly turns in a north-westerly direction, finally passing through Bogra and Dinagepore, when it is more or less parallel to the line of twenty inches in the Darjeeling Hills. The line of twelve inches average rainfall runs from Northern Behar almost due south-east parallel to the fifteen inch line, but on reaching South-West Bengal it doubles back, running almost parallel to the Chutia Nagpur district, and finally passing through South Behar until it nearly returns to the point of starting so as to form a closed curve. It will be seen that this line therefore practically follows the line of the basin of the Ganges. Inside this area of average rainfall of less than twelve inches, there are two areas of considerable interest. The first is the area of minimum rainfall of the month, which embraces the Jessore district, some parts of the Nuddes and Burdwan districts, as well as the Rajshahye district, and the second is an area of somewhat increased condensation in parts of the Patna district. The Chutia Nagpur Division during the month receives a normal rainfall of between twelve and fifteen inches. This somewhat larger amount of rainfall is probably produced by the intermingling of the two branches of the monsoon currents as before explained.

The position of minimum normal rainfall during this month, as noted above, is certainly remarkable, but it is perhaps susceptible of explanation on the principles above laid down. The western and the north-western divisions of the Province are influenced by both the Arabian Sea and Bay of Bengal monsoon currents, which by their intermingling produce increased condensation or a larger amount of rainfall. This intermingling probably in normal years does not extend very far beyond the Chutia Nagpur districts. The southern districts of the Province receive somewhat increased rainfall owing to their proximity to the sea. The eastern and northern districts of the Province are influenced by the ranges of mountains or hills to which they are adjacent, and they also by well known physical laws will receive considerable rainfall under the action of moist winds. It is therefore only the central districts, such as mentioned above, which are uninfluenced by any of the causes which are calculated to produce additional rainfall, and they are consequently the districts in which the

average rainfall is the smallest of the whole Province.

Meteorological summary of month.—The concluding days of June had witnessed the formation of a small cyclonic vortex of moderate intensity, accompanied by strong winds, on the neighbourhood of the Sandheads. This had moved slowly westwards across the Orissa Hills into the Central Provinces, and had caused considerable indraught of strong southerly winds across the Bengal coast. The southerly winds gradually died away on the 1st and 2nd of the month, and were feeble on the 3rd. On the 4th instant a second barometric depression commenced to form close to the coast of the Sunderbuns, probably near the Sandheads. This cyclonic vortex was, however, a feeble one, considerably more feeble than the former one, and after remaining stationary for two days, it gradually moved westwards and crossed the Balascre coast on the evening of the 7th instant. It advanced across the North Orissa hills into the Centra! Provinces, where apparently it broke up on the 9th. Southerly winds were again established over the Bengal coast with the passage of this vortex inland, and they continued to blow with moderate strength for some days.

These two, cyclonic vortices caused considerable indraught towards the centres of disturbance from all sides, and thus their formation and advance westwards were accompanied by the setting in of more or less northerly winds in North Bengal, which, as well as in subsequent cases, it will be seen considerably affected the rainfall of Central Bengal for the month.

On the 10th instant a new cyclonic vortex began to be developed, but on this occasion

it was formed much further south than in the previous instances, and also nearer to the The vortex developed slowly on the 11th, and commenced to move in a westerly direction on the morning of the 12th, and it apparently crossed the coast to the south of False Point near Gopalpore on the evening of the 13th. During the formation and passage of this vortex, the southerly winds in Bengal were to a great extent replaced by northerly winds of indraught towards the vortex, and it was only after the storm had passed inland that the southerly winds re-established themselves over the Province.

The Bombay monsoon current was at this period blowing strongly across the Bombay coast into the Central Provinces and Central India; on the 16th westerly winds set in at the Chutia Nagpur stations, and at the more southerly stations in South Behar. They gradually extended their area of action till they blew with moderate velocity over Oriesa, Chutia Nagpur, South-West Bengal, Behar and the north-west angle of the Bay. Here

they met the Bengal currents of moderate intensity which were blowing, and the effect of the meeting of the two moist wind currents in Bengal was to produce a considerable amount of ascensional movement in the air, and therefore to diminish pressure till Bengal became a shallow, but large, area of barometric depression. This interaction of the two currents was of course attended by a large amount of vapour condensation, and the rain which fell during this period from the 17th to the 21st was heavier, more general, and more uniformly distributed than at any other period of the present monsoon. Both currents, however, rapidly decreased in strength, and by the 24th instant light unsteady winds prevailed over the greater part of the Province. Strong monsoon winds were, however, however, and provided blowing in the south, and probably over the greater part of the Bay, and these conditions gave rise to the formation of an area of disturbance of rather wide extent over the head of the Bay. This, however, did not localise itself into the usual well-defined cyclonic vortex, but remained as a large shallow depression over the Sunderbuns, which was stationary up till the 27th, and then advanced westwards into the southern districts of Chutia Nagpur. With the advance of this large area of depression, a considerable inrush of moist monson winds took place into Bengal. This caused very heavy rainfall, especially in the Eastern Bengal districts, which continued for some days, and which was accompanied by a falling barometer. The continuance of these conditions gave rise to the formation of a new area of shallow barometric depression, which was so diffused that it was almost impossible to exactly localise The lowest barometer, however, was recorded in the neighbourhood of Dacea, and the centre. the depression after remaining stationary for one day advanced on 1st August in a northwesterly direction, and gradually filled up on the following day.

One of the noteworthy features in the meteorology of the second half of the month has been the persistence of a strongly marked westerly set in the winds of Chutia Nagpur, Orissa, Behar, and South-West Bengal. This appears clearly to be due to the Bombay branch of the monsoon currents forcing its way further to the east in Bengal than usual; while on the other hand, it would also appear to indicate that for the second half of the month the current for the Bay of Bengal has been somewhat weaker than usual.

The actual rainfall received in the Province during the month of July has, when the whole area only is considered, been of a fairly average character, but the distribution of the rainfall has varied from the normal to a very considerable extent. Thus when the average rainfall of each meteorological district is considered, it is found that South-West Bengal received a rainfall about 18 per cent. in excess of the normal amount; Chutia Nagpur received an average excess of 12 per cent. over the normal fall; Orissa an excess of 4 per cent., and South Behar and East Bengal an excess of 3 per cent. On the other hand rainfall in North Behar was on the average 18 per cent. in defect of the normal fall, and North Bengal 22 per cent. in defect of the normal. If, however, the various districts are considered to have an equal value in such a calculation, it will be found that the percentages in excess and defect of the normal exactly neutralize one another, and thus it may be fairly stated that, when the whole area of the Province is considered, the rainfall was about equal to the average. Taking, however, the distribution of the rainfall as roughly indicated by the above percentages, it will be found that the western, southern, and central districts received amounts in excess of the normal fall, while the northern divisions received a very deficient rainfall.

The area of excess rainfall varying from about +10 inches down to zero above the normal may be also said to include the districts between the mouth of the Hooghly on the west and Chittagong on the east, and to extend in a north-westerly direction nearly to Patna, a branch of the area of excess rainfall turning towards north-east, and including Eastern Bengal and Hill Tipperah. This area therefore includes practically the whole of South-West Bengal, East Bengal, the southern parts of South Behar, and the western districts of Chutia Nagpur, and it clearly includes that area of the country which has been principally subjected to the action of the cyclonic vortices described previously. A further area of excess rainfall starts from Orissa in a north-westerly direction through Chutia Nagpur, and rainfall starts from Orissa in a north-westerly direction through Chutia Nagpur, and includes the eastern districts of this division. This again is another area which has been affected by the passage of cyclonic vortices during the past month. Between these two areas of excess rainfall there is an area of diminished rainfall, the line of which appears to coincide very fairly with the direction of the Chutia Nagpur hills, and which runs along at their base. Northern Bengal and Behar are wholly in defect by amounts varying generally from zero up to 10 inches; the line of maximum defect rainfall are nearly parallel to the line of the Himalayas, and the defect lessens with the distance from the hills. Two or three striking irregularities should, however, be mentioned, the first being the abnormally light rainfall received at Rungpore and some of the districts adjacent to it, and a somewhat similar case at Mymensing, and the abnormally heavy falls received in the Burdwan and Ranigunge districts, and at Satkhira, in the Khoolna district.

It would appear probable that the excess rainfall over the large areas noted above is due to the action of two of the causes mentioned in the meteorological summary. The first cause is the more extended action of the Bombay current during this month, causing an intermingling with the Bengal current further to the east than usual, thus producing increased condensation or rain, and carrying the lines of heavy rainfall more to the east; and second, to the passage in a north-westerly direction from the head of the Bay of Bengal of the various barometric depressions noticed above, each depression causing heavy rainfall over the districts through which it passed. But from the indraught from all sides which these depressions always cause in their formation and advance, it is clear that somewhat northernly winds of indraught must have frequently obtained in the northern divisions, and thus the south-west monsoon winds have not been able to exert their full force on such divisions as North Bengal and North Behar, and it is possible that their deficient rainfall may be thus accounted for.

The deficiency in the rainfall during this month was then most marked in the following districts. In the Alexia divisions all the following districts.

The deficiency in the rainfall during this month was then most marked in the following districts:—In the Parjeeling district the defect from the normal value was about 12 inches; in the Rungpore and Purneah districts the defect averaged 5 inches; in the Bogra, Dinagepore, Backergunge and Cooch Behar districts the defect was about 4 inches; and in the Mozufferpore district about 3 inches. Some parts also of the following divisions have suffered from deficiency of rain:—Nuddea, Chittagong and Chittagong Hill Tracts, Mymensing and Durbhanga. The remainder of the Province, with these exceptions, has received ample rain, while in some cases as at Ranigunge, Burdwan, &c., there have been centres of abnormally heavy rainfall.

centres of abnormally heavy rainfall.

The following table gives a summary of the rainfall and temperature data for the seven meteorological divisions of the Province:—

						Tumpi	SHATUS	RIE-					RAINP	AJ.L.			
				trionth.	month.	Avera	ge for t	nonth	month above	0	of mon	th.	Rais	ny day	9.	Binos	
METEOROI Distr		L		Bighest observed during	Lowest observed during	Of highest of the mouth.	Of lowest of each day.	Of mean for each day.	Average mean of month or below normal mean me	Average.	Normal average,	Variation.	Average number in mouth.	Normal sverage num- ber.	Variation.	Атепер.	Normal average.
Oriona South-West Bengal East Bengal North Bengal North Belsar South Behar Chutia Nagpur	000		***	98'4 94'6 94'8 97'8 99'0 101'9 89'5	73°1 71°2 69°8 74°1 74°0 68°0 71°2	86'4 98'8 86'2 90'4 89'0 88'8 85'6	78°4 78°5 77°8 75°7 78°8 77°1 73°8	82.4 83.7 82.1 84.5 84.2 83.5 78.7	-0.0 -0.8 -0.9 -0.9 -0.9	18:73 14:56 17:17 11:00 10:23 12:50 14:67	13°17 12°28 16'70 14'12 12'40 12'17 13'06	+0°58 +2°27 +0°47 -8°12 -2°27 +0°33 +1°61	1914 9718 9218 1716 1516 1813 1919	17'A 19'4 22'2 18'4 15 6 17 0 18'9	+1'8 +1'0 +0'1 -1'0 0 -0'7 +1'0	33'41 20'46 41'32 29'32 25'18 24'74 24'67	25 '5 25 '5 41 '8 38 '2 23 '3 20 '6 83 '9

METEOROLOGICAL OFFICE, BENGAL,

ALEXANDER PEDLER, F.C.S.,

The 13th August 1883,

Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

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Drvm			1	Atz	PRESST	RR.	Winn	,			Tu	TARATI	JRE.			dity	ek.
Methorological Divinior	District.	Representative		Ween barometric height, 10 a.m.	Mean reduced to sea level.	Variation from	Prevailing direc-	Mean wind reke	Highest during week.	Lowest during week	Hean maximum temperature.	Mens minimum to persture of week,	Mean daily tem- perature of week.	Variation from normal mean of week.	Mean 10 A. M. temperature.	Average Bumidity at 10 A. M.	Average cloud agrount at 10 A. M. for week.
,	Poorse	Gonalpore	***	80.089	29.716	-	8	219	89.0	80.8	8768	81*9	88.8	-	84*3	84	610
i i	Pooree	Talse Point		\$6.088	29*7011	+ '000	sw,wsw	160	91.4	76'1	86'8	77-1	81.8	-1'0	66'1	78	7.7
ORIGEA.	Cuttnok	Cuttnek		291636	291716	+,063	SW	49	9214	7014	91.6	78'0	8418	+1*8	86'7	74	7'8
, (Bainsore	Balasore		201617	29'675	1,000	8W	141	91 4	76.7	8018	78-6	6319	adre	8514	80	Storen
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	South 24-Pergunnahs.							4,04			03.0	***	0.4.5		000	- 00	0.1
100	Midnaporo	Midnapore	844	29'544	20'67R		BW. W	?	98.9	78:0	68-19	76'9	88'4	-	84/9	. 79	8'4
1	24-Porgunnahs	.]	j						i								
JAE.	Howrah	. Calcutta	***	20'646	291068	+ '072	SW. W	186	9,488	77 7	87.7	79'6	83'7	+1'0	84'1	82	914
BEEG	Hooghly	.3															
	Burdwan	Burdwan		29:561	29.661	+ 1020	B. vari-	98	91-6	76.4	8810	78 7	83.8	+0.5	18314	68	8%
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E	Beerbhoom	. Ranigunj	***	29.285		The same	Variable	104	92'5	708	89.0	78'5	84.8	-	83'9	81	6'4
800	West Burdwan																
	Moorehedebad	Berhampore	40.	20.943	29.620	+ '001	8 W	147'5	90.1	76'9	86.7	79.1	821)	-1'4	63.6	87	100
. 1	Nuddon																
	Jessore	Jessore		29:637	291070	+ '022	8	76	91.9	77'9	8819	791)	8814	+0'8	8816	84	8.3
- (Khoolna	. 5															0.0
- (Chittagong	Chittagong	44+	29.635	29 744	+ '041	BE	147	88.4	74'0 1	83.0	75-9	70.4	-2.0	81.9	90	91
45	Chittegong Hill Tract	Demagri						()ba	ervations	not recei	ved.						
Brest.	Backergunj	Barriani		\$8.000	-		8 & 88W	257.9	87*1	79.3	85.1	8,08	82 7	-	83.2	98	6.8
E.	Noakholly	Nonkholly	***	-		0.00	-	the same	871#	7718	651	7719	81'8	-	81.3	9)	918
ESTE	Furreedpore	Furroodpore	***	20.032	-		88E,88W	139.7	68.89	76'9	86.9	79.4	8314	-	83'8	87	8'0 ;
Big	Darca	Imeen	***	2W-030	291670	+ '018	18	117	HIERR	78'2	8714	70'3	8313	-0.1	83 7	00	9:7
	Osmanillah	Commillah	***	29'670	20.709	-	8E	P	95.0	60.3	63 2	70.7	79'5	-	81.2	88	7'0
- (Mymensingh	Mymensingh		29°637	-	-	BES	137	88'3	75'6	8618	77:3	81.8	-	82.1	80	9*9
(Bogra and Pubsa	Serajgunj	•••	2P1606		_	SE	158	89.4	74.7	86110	77.7	63.3	-	8815	87	96
3	Enjshahyo	Rampore Beaul	leah	20.230	20.004	_	SW & W	264	9016	73'6	88'6	77'3	83'7		84'8	63	8:6
Bry		Dinagepore	***	201493	-	_	8 a V	130	916	76.1	89 5	78'0	88.89	-	81.7	63	7'9
	Bungpere	Rungporu	001	291550	-	-	Variable	144	91.8	73.6	67'8	77.1	82.2	-	81.0	90	914
5	Juliphymeo	Julpigoree		29:023	-	-	ENE	144	8910	76'1	85'2	75.2	80.3	_	77-6	95	9'7
- 1	Cooch Behar	4											40 4				
-	Darjeeling Hill Distric	1a Darjoeling	***	22.882	_	-	Variable	84	68.4	55'0	66'3	67'8	61.3	0.00	62'6	08	9.6
6		Purneab	4.4	201404	29 600	4 '001	Variable)	86	83.5	74'8	88.8	77.4	85.8	-16	m'8	91	917
Bran	Manuffamona																
		Durbhunm		20.100	20.032	+.001	Variable	82	92.4	76'0	89.3	79'6	64'0	+0.4	64'8	848	6.0
North	Chumparun	Motihari	1	0.00		_	SEA	P	88'6	Barr							
14	Sarun	Chupra	***	29:453		_	variable W	41	9315	76'4	85 5	76.7	921	-	86.0	77	35.4
		(Debroe		20.508	គា.មហ -	_	W. WSW	9	80.8	78'8	80.9	81'1	85.3	-	87.6	98	5'3
	Shahabad	9	***	20 396	29'637	_	WNW	108	65.4	72.0	87 7	74'6	81.1	-	87.1	67	8.3
# H	Arrah	Arrah	**	29'419	20 007	_	sw	156	94.4	78-3	8618	80.0	8417	-	86.2	77	8.0
BESH	Gyn a	Gya		20.526	201631	+:019	W	89	1	78'6	86:7	80.0	81.8		86.4	78	4'0
	I'ntna	Banaipore	***	20'445	20.027	+ 1003	NW & V	72	59.3	75'3	90:1	7419	83.3	-1'A	87:0	76	9:3
SOUTH	South Bhagulpore			3, 700	ac 027		27 17 00 4	1.0	D/() (7	78'7	93.2	80.8	87 3	+0.0	87'0	76	0.8
	Moughtr	Bhagulpore	84 -	29:447	201880		Variable	82	92.9	77-5	8914	79:1	8413	-	8614	83	616
	Southal Forgumal,	Doomka		20133	_ '	-	NWAC		91.1	Prance	40000						
. (Liauaribugh	Hazaribagh	1	27'080	291688	+'043	NW.	189	8815	7618	89.0	701.4	891	-	83.8	90	81
NAG-	Lohardugga				-			200	00.0	72'6	8\$16	78'3	7810	-0.9	79.8	76	10'0
CHOTA	Manbhoom	Ranchee	***	27:563	29*673	-		-	86'5	08'4	831.0	70'8	76:0	-	79'2	32	8-9
5	Singh bhoom	Chybran	,						}								
	*	1						Statement of the last				1				1	

Fin planation of Summary.—The normal means of a'r pressure and temperature are the arithmetical averages or means of the readings during the same the humedate of the atmosphere is expressed as a percentage, saturated are leng represented by 100. A clear clay is denoted by 0 and an express sky from that district, (i.e.) the total rainfall at the sub-divisional stations in the district sending in returns divided by the number of stations. A rany

for the week ending 10th August 1883.

-	-					OBSERVAT									
					R	AINPALL.			A 00 4	1 40	Danner	A 1			
statio	Of w			e 1st of mor	ath.		oe 15th Mu	у.	day	umbr	Represent		DISTRI	CT.	1
observing station.	Wenn for district.	Normal mean for district,	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Caristion.	Average number of rainy days during the week.	Normal number of raing days of week.					
-27											Gopulpore	}	Pooree	***	
3105	8.03	8-05	4'48	8'01	₩ 0°58	20.53	27"91	+8'31	2.0	6.1	Paise Point)		711	***
174	2'47	3.03	8.08	4.99	-1'47	33182	28'14	+5 68	8:7	214	Cuttack		Cuttnek	***	***
173	2.81	2.71	3.34	4'SB	-1:04	34 61	\$7.86	+616	6'3	41	Balasore		Bulasore	***	***
	1160	8.09	1-96	4*92	2'86	32.08	82:30	+0'68	27	4*6	Saugor Islan	1 {	Nouth-West .1		
01	1.00	0 00									801.2	(South 24-Perg	mun	
186	3.03	3*84	8179	4180	4-4120	20199	28166	+133	8.3	4.0	Midnapore		Midnaporo	***	***
1	= -1								41.44		Calautta	1	24-Forgunnaha	***	***
181	1'96	8'82	4.27	4167	-0.50	32:08	29.51	+ 2.87	3.0	4.7	Caloutta		Howeth	* + 4	***
			ĺ		1				4111	4.0	Doortoon	(Hooghly	***	101
30	1'86	8008	5'24	4.13	+1'12	35137	25189	+9'48	413	41	Burdwan	***	Bankoora	***	
									4'G	415	Raminard	1	nan koora	***	1 04
15	4.46	8.07	6.71	4:26	+2*45	38153	29.28	+H*95	20	4'8	Ranigunj		West Burdwan	***	***
							***		4.4	449	Hardan manage	(Moorahedabad	Y _o	***
108	8118	2187	4.03	4*43	-0.40	29106	26 93	+2.13	4.4	41	Berlinmpore	001	Nudden	P 0 0	
	3,98	2188	8.01	3.81	+0.10	25.33	27'97	-5.64	3.4	40	******		Juanore	* * 4	***
176	8'01	8.07	4*98	6161	+0.23	30.01	31-99	-118	3.7	415	Jusaore		Khoolus	*** <	b ***
	002	001			1				7:0		/71-144mmmmm	6	Chittagong	100	***
212	12'68	5-27	15.78	7:51	+ 9/27	97.48	74*10	+ 23*48	0.0	5.1	Chittagong		Chittagong Hil	I fillian	•••
	7.36	8187	8.00	5.43	+8.27	41.79	67 103	-6'17	5 8	\$.3	Domagri	***	Backergunj		158
124	4:50	4110	0.19	5'66	+0.73	40'11	49,39	-9.38	70	5.2	Barrisal		Nonkholly	***	0.04
100	10.90	6'84	11:83	8139	+3.44	76:38	65184	+12.74	5.0	6'9	Noakholly	1++	Furreedpore	10 0	040
168	8'88	2197	4:27	4'37	-0.10	81'36	34:49	-3.18	6.0	4.0	Furreedpore	***	Dacon	497	492
1:39	4188	8'54	8.18	5-25	0.10	34.39	37.64	-3'15		4'8	Dacoa	**	Commillah	***	***
90	4'56	8 99	6187	8196	+0.03	45*8#	40.07	+ 2'07	6.9	5.1	Commillah		Mymensingh	***	- 101
1.80	4'54	\$150	5-11	8.78	+1.38	91.10	40130	-9:23	9.9	4.7	Mymensingh	***	Bogra and Pub	April 1	811
6.34	8183	9161	4194	3.41	+0.83	28.41	82,23	-3.23	6.8	8.0	Sorajgunj Rampore Hea		Rajeliahyo		***
1790	2:26	9141	2.83	3.81	-0'88	23.08	89°50	-7.05	5.0	414	Dinagapore	4444444	Dinagopore	44.11	-041
6'38	3'42	\$188	4.10	3.36	+0.4	26.55	86'14	-10.00	0.3	8.7	Rungpore	***	Rungporo	***	4**
7197	6.91	1.09	7:06	2168	+ 1.14	31.31	67'01	-20 00		0.7	and the state of t		Julpigarea		***
7140	21*82	410	50.50	5.10	+17:13	72.27	67 12	+5'15	7:0	4.2	Julpigoree	}	Cooch Behar	***	
	2000	910				41011111	0.1+00	+2.74	6.9	510	Darjesling		Darjeeling Hili		
138	15'61	7:61	16.48	9,60	+6'69	97.36	91.03	7.010		9 17			Purnesh	***	***
48	2106	3'51	8:61	4136	- 0'75	36134	82.50	+ 4'14	8.3	4.0	Purneah	}	North Bharulp		
		00.			-	- 4							Mozufferpore	***	
194	8'37	2'50	6.03	8.18	+2'88	31-78	23:12	+8'00	413	8.4	Durbhunga	2	Durbhunga	***	94.4
3150						1314440	24'71	-1'42	4.7	318	Motihari		Chumperun		141
1:51	2186	2'58	4178	8:86	+1'79	50.80	22.80	+5'84	1.9	8'4	Chupra		Sarun		
0.40	1'70	8152	3.58	8.93	-0.10	28.14	pa 00				Dolareo)			
0.48					2.4879	22'41	2213	+0129	1'3	3.9	Burar	}	Shahabad	٠.	
-	0'86	8.88	2.78	4/31	-1.23	22.01					Arrah	411	Arrah	114	404
0.80					O.CO	90*84	23'84	+7.70	1.9	3.5	Gya	157	Gya	***	200
1.70	0.77	8.05	8:23	4*21	-0199	30°84	55.48	+11.80	8.3	8:3	linnkipare	***	Patna	114	
	1'53	8.22	4.58	8.90	+0.70	34'20	20.02					(South Blugulp		60.
6'32	3.41	2"ful	8140	6100	+ 0149	27:61	13190	+8171	3.4	3.8	Bhaguipere	{	Monghyr		*66
0.00					0.00	29 00	28:33	+ 0°67	410	4.0	Doomka		Southal Pergun	naha	41.
	2:34	3.19	8'61	4.18	0157		27'98	+0'33	4.3	3'7	Humribagh		dymirenill		***
A. 20	B166	3.90	4135	5°01	-0.76	28*30	X1 110	1000				4	Louardugen	***	4.6.
134	2166	3'84	6'73	5'83	+1'40	88 88	28'63	+5:19	4.0	43	Ranchee	{	Manbuoom	***	***
1						85.08	35'78	+1'32	5:0	51	Chyelmann	B 500	Singhbons	110	***

ried for the past 12 years. The variations are segative when the mean for the week is less than the corresponding normal mean and positive when greater, to 19. The number denoting cloud amount represents the part of the sky evered, the whole sky being denoted by 10. Under the head "district over the last to the numerical averages of the rainful returns received as a stations for the period in question during the past 12 years. The "means for the district" are the numerical averages of the rainful returns received as one on which at least an hundredth of an incu fell.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 10th of August 1883.

					B	LINVALL				Tot	ai.				
Detromorpioni division.	District.	Station,	Saturday, 5th August-	Sunday 5th	Monday, 6th August.	Tuesday, 7th August.	Werfreeday, 5th	Thursday, 9th August.	Friday, 10th August.	Number of rang days.	Rainfull of week.	Total vain- fall from lat to 10th August.	Average total rain- fall from lat to 10th August,	Total rain- fall since 15th May,	Average rantfall from 18th May to date.
OBISSA	Poorce	Poorce Khurdah Hanpur Valse Point Hookitola	0°08 1°16 0°18 0°17	0148 0144 3120 2125	0.43	2°45 1°00 1°03	1.02	0.30	0'04 1'75	2 7 3 5	0°56 5°96 6°05	1°60 (092 6°95 6°20	4°86 8°06 8°79 6°88	34°25 61°31 23°04 68°38	94°18 29°88 20°90 80°78
	Outtack	Jagatsingpore Bunki Cuttack Kenduspara Jajpura	0:40	0.42	0'28	1.30	0.10	0.80 1.83	0.07	5 2	2°35 2°56	8:30 2:40 3:96	8189 5105 5109 8107	4579	23°11 80°54 27°67 30°9,
	Balasorv	Chandball Bhuddruck Berah Balasoro Je lasore Baripodah	0.16 0.40 0.08	0°15 0°40 0°80 2°40 0°48 0°19	0°45 0°58 1°50 0°89	0.10	0.20	0.80 0.31 0.50 0.30 0.11 0.04	1'76	3 6 5 6	1:26 3:10 5:05 1:20 0:80	2:64 3:38 6:37 1:81 8:23	4*69 6* 3 4*60 4*83 3*60 3*60	85°18 82°02 87°47 86°93	86184 84167 96173 28177 98160
South-West Bengal.	Midnapore	Contai Saugor Island Tumlook Midnaporo Ghattai	0.51	2.78 5.04	1.51 0.84 1.20 1.13 1.45	0'48	0:22 0:50 0:19 0:17	0.17	******	8 2 2 4 4	2:21 1:70 1:70 4:31 5:76	2.45 1.10 7.20 9.65 9.54	4.78 5.41 4.47 4.36 4.48	87-48 85-30 82-40 26-09 81-90	81:0 83:3 87:7: 87:5: 80:14
The sale	24 Pergunnah	Diamond Har- lour. Alipore Jail Itarrank pore Dum-Dum Barasot Busecriat	0.59	0.01	0°08 0°23 0°66 0°16 0°18	0.000	0'80 1'54 0'60 0'12 0'18 0'98	444.11	00000	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0°99 1°77 1°53 0°27 0°63 8°65	2°86 3°47 3°24 1°34 1°38 6°48	4°86 4°81 4°20 4°15 4°43 4°49	26*11 28*65 30*21 28*75 2**07 64*11	81°9 80°7 20°5 20°2 28°0 81°1
	Howrah	Howrah Mohesreka	0.87	0'45	0'94	0.07	0.90	*****	*****	4 8	1.32	2:50 5:87	4'45 5'03	97°39 80 48	291R:
	Hooghly	Serampore Hooghly Johanabad	0°15 0°77 1°37	0.01 0.15 0.19	0°50 0°09 2°50	0.07	1°29 0°78	U:47 O:07	0.18	6	2:31 2:06	3:08 5:48 10:78	6137 6119 6189	30°87 37°10 34°00	2819/ 27/30 20/03
1	Burdwan	Culna Burdwan Cotwa Rancogungo	0.11	1.68	0.63 1.35 0.55 0.88	0.50	0.41 0.02 0.31	0.12	0.11	6 5	1:04 9:31 1:23 1:71	6'71 5'11 6'99 2 77	3'84 4'17 4'34 4'47	33'87 41'96 30'41 48'37	26'3' 26'6 25'7
0	Bankoora	Bankoora Bishoupore Maliara Khatra		0.18 8.04	2:60 8:08 1:95 2:90	2 33	1.88	0.15	0:07 1:14	6 4 6 5	6:20 8:88 4:80 6:13	7:80 9:89 8:84 7:84	8°25 4°25 4°21 8°29	34'54 34'54 82'18 83'89	28°10 28°11 33°6
	Bearbhoom	Rh. Scory Hetampore	0:60	0*48	0.25	*****	0.11	0.27	0.08	8	1.74	10.03	6'81 6'07	42:19	99191 33110
	Nuddon	Rongong Ranaghat Kudunghur Curradanga Meherporo Kooshten	0.80 0.80 0.80 0.19	0.18	0:40 0:50 1:45 0:10 0:12	0.08	0'48 1'80 0'00	******* ****** ****** ******	0.23	8 4 6	1 79 1 47 0 85 9 24 2 38 2 140	5-49 7-52 1-41 2:80 2.70 8-67	4 95 4 86 8 7 1 8 86 3 37 2 23	20'54 37'54 16'04 18'44 22'80 27'88	2017 (26 64 2016) 2016) 2016) 2016)
	Khoolna	Satkira Bagichat Khoolua	0:37 0:25 0:3)	0.61	1'90 2'95 0'61	0°02 0°04 0°12	11220	******	0.72	8	2:20 7:63 1:84	4'37 9 74 8'73	\$-12 4:88 6:30	61°25 83°66 . 86'92	31'4 38 H 82'11
PRESERVE OF THE PERSON NAMED IN	Jeseore	Narail Justore Jimudah Magoorah	0°24 0'30 0'48	1.68	2:11 0:55 0:21 0:80	0.83	0.55 0.39 1.19 1.34	*****	0.46 0.10	3 5 8	3.77 3.18 0.66 1.83	610 653 110 8188	4162 4162 4123 4108	20108 83108 82145 83108	2011 32 4 80 5 20 6
8	Moorahedabad	Kandi Bampore Hant Borhampore Lalbagh Anmeunge Jungipore Lalgola	0°13	5'78 0'5% 1'55 1'41 1'80 0'17	0.08 0.08 0.18 1.10 0.30	0.01	1'AS 1'25 0'02 0'15 0'05	0°18 0°18 0°08 0°18	0.86 1.37 0.21 0.00	5 5 7 5 5	6:53 4:12 8:24 1 93 2:21 2:39 1:03	7:52 0:71 3:08 2:51 2:47 3:08 2:24	4119 4193 4193 3150 4163 9138 4148	35'56' 80'24 27'36' 26'50' 20'36' 20'36' 27'26'	23 M 24 3 24 3 27 6 20 70
EAST SENGAL	Chittagons	Cox's Basar Chittagong	0 57	0.28	0.75	8'90 0'75	1.11	8.74 3 d8	0.32 0.32	7 7	16'11	10.48 11 He	8'80	109:66	91°38 56°79
	Chittagong Hall Tracts,	Rangamati Ruma Agartola	*****	0.14	0°41 0°86	0*89	1'46	4*08 0*04	0.18	6	7:36	8154	7:64 3:82	41'08	61:74
al w	Backergunge	Patunkhally Peresepere Burraal	0.58	0.40 0.49 0.49	1.00 1.00 3.50	0.40 0.40	0°80 0°22 1°68	0:40 0:08	1:30	8 7 5	2'99 6'70 8'75 8'45	8 60 8 97 6 47	6146 6146 6146 8184	36°96 46°65 35°65 87°14	55 43 59 47 45 93 41 95
4	Noakholly	Noakholly	0.08 1.80 0.49	0.88	4:80 4:80	1.32	0°37 1°48 6°20	0.14	0.80	7 7	10:78	6:78 12:12 11:55	\$ 48 0.00	70:18	66 42
	Furresdpore	Madaripore Purreedpore Goslungo	0.13 0.38 1.02	0.88 1.18 0.80	0.81	0.93	0'24	******	0.14	6 5	1.34° 4.77 4.05	2°29 5'62 4'95	7'72 5 13 4'03 3'97	80.05 80.05 80.05 84.11	50 26 50 36 36 19 20 30
	Dacoa	Munshigunge Dacca Namingunge Manichgunge	0°20 0 18 0°22 0°75	1*80 0*70 0*26 0*88	2'97 1'75 1'80 0'65	0°14 0°20 0°20 1°45	0.10 0.03 0.03	0.58	1'01 0'33 0'87 0'47	6 6	8'50 8'19 8'38 4'45	6'A2 4'40 8'76	6.00 8.10	85°06 84°68	415) 80% 5 38
	Comilla	Comilla Chandpore Brahmumberia	0.03 0.10 0.10	0°20 1°75 0°27	1:48 2:76 0:84	0.68 (u.19 0.19	0:88 1:70 0:18	0.48	0.83 8.75 1.14	7 6 7	3'92 0'10 8 81	6:97 9:35 8:17	6:60 7:27 6:32	80°24 82°64 82°64 82°41	47 40 -6 36 18
2	Mymenangh	Kishoregunge Atla Hymeraingh Jamalpore Aretrokona	0.08 0.90 0.10	0.66 1.27 0.74 0.67 0.63	1'81 2'91 0'83 2'96 6'36	0.74 1.10 0.86 0.88	0'11 0'38 0'37 0'04 0'42	0.27 0.16	1:31 0:04 1:50 2:03 0:40	5 7 6 7	8:92 4:57 4:78 6:87 8:97	4100 6110 6136 7116 8178	3:66 3:50 3:70 6:19	83'113 88 05 89 47 20'87	400.75 620.85 40.55 37.16

Explanation indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the results, the corresponding space in the total rainfall columns are left blank.

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 10th of Aug. 1883—concluded.

					R	AINPALI	do			Tor	ra G.		•		
Meteorological division.	District.	Station.	Saturday, 4th August.	Sunday, 3th August.	Monday, 6th August.	Tuesday, 7th August.	Wednesday, 8th August,	Thursday, 9th August.	Friday, 10th August.	Number of raing days.	Rainfall of week.	Total rain- fail from 1st to 10th August,	Average total rain- fall from lat to luth August,	Total rain- full since 15th May.	Average rainfull from 18th May to date.
NORTH BEFOAL	Pubna	Pubna Serajgunge	0'36	0.55	0°05 0°65	0°90	0°06 0°75	8180	0.81	6 8	2:39 3:(k)	2°76 4°10	3°26 3°27	24'18 38:17	29·1
-	Briggin	Sherpore Nowkhilla Bucca Panchbibi	0°22 0°07 0°10 0°98	0:08 0:27 0:43 0:75	1125 0166 1131 0193	0160 0107 0160	3°90 0°17 0°11	0.87 0.84 0.03	1.19	7 7 6	6'51 3'15 2'58 2'63	6°94 8°51 8°53 8°07	6 22 8 10 8 16 2 53	20 90 20 90 20 90 20 90 33 30	36 5 34 5 36 31 7
	Rejehaliye	Benuleah	0°24 0°98	0181 0160	0139	0.12	0 14	0.10	0°88 1°00	7	1166 3160	215 6 4135	9.11	17'81	39°
	Maldah	Maldah	0.47	0'84	0.18	0.88	0.08	101100	0.02	6	1:35	1.91	3:39	54:53	20
001	Dinage pore	Mohadebpore Churamon Rugunge Dungepore Baloorghat	1.10 1.01 1.00 0.21 0.21	0°23 3°54 0 80 0 80 2°73	0°28 0°47 0°79 0°28	1'80 0 70 0'04 0'09	0.58	30:0	0.19	6 5 6	3144 3125 8134 4146 3136	4199 3147 2 86 4 7 1 6123	4*45 2:70 3:95 8:26	28.60 26.03 36.49 38.11	37 27 24 36
153	Rungpuro	Bhawanigungo Rumppan Kurigram Baguogra	0°16 0°17 0'85	1'35 2 47 0'60 4'39	1139 4184 3160 0190	0°05 1 60 0°10	0°41 0'40 0°61	0'09 0'62 0'80 0'40	0.16 0.65 0.80 1.71	5 6 7 7	3°15 8°35 7°37 8°76	8:60 8:40 7:37 8:76	9:79 2:50 1:81 4:48	36.65 31.68 31.37 43.33	36' 67' 40' 87
	Julpigoree	Julpigoreo	8.88	5160	8.63	1.03	1.74	0:97	3184	7	19:83	21.40	6:19	86'86	67
	Cooch Behar	Dinhatta Couch Buhar Mickligunge Matabhanga	0.29 0.25 5.00 0.24	3155 4180 6100 8150	2.85 4.42 2.12 4.02	0'37 1'65 1'56 U'64	1°97 0°63 0°43 0°90	6.25 4.37 2.25 4.78	2°82 P 04 4°P7 10°41	7 7 7 7	18:37 25:16 22:32 29:35	12:53 25:18 22:75 20:01	8:74 6:37 6:19 4:29	80°48 82°46 69°04 88°87	59°
27	Darjeeling kirli,	Burn Silliguri Parjesting Kalmpong	2:32 0:32 0:22 0:82	6:16 6:71 1:73 0:60	4.78 2.50 0.45 0.05	0°38 0°78 0°46	0186 0118 0151 1158	1.62 1.70 0.30 1.52	7°73 1°55 3°60 2°81	6 7 7	23:47 11:26 7:57 7:88	25'09 12'86 11'13 18'09	7:60	71'98	193
forth Behad	Purnenh	Kimengungo Arrarenh Purnosh	0.41 0.90 0.98	1.08	0.88 1.40 0.80	0.10	0'87 0'96 0'84	0.91	1.21	6	4:30 3:94 8:09	5190 4124 3198	9.88 9.88 9.88	40°96 41°13 23°23	36 36 33
	North Bhagul- pore.	Maddapore	0.80	0.98	0.02	0.88 0.49	0.29	0.08	******	6	1.18	2'84 1'99	4'48 4'37	87.07 63.66	21
	Durbhungs	fajpore Durbhunga wadhubani	0.30	0°85 0°87 1°19	1.15 2.45 0.99	1.42	0 05 0 05	0'25	0.17	2 4 7	1°70 4 79 8'61	7°23 6'35 6'07	8°55 3°12 2°58	82°91 32 56 88'58	23 23 84
	Mozufferpore	Situmarhi Mozufferporo Einjaporo	0.03	0.14 0.50 8.55	1.40	2150 0105 0146	******	1154	0.08	6 4 2	7:61 2:00 0:00	9:20 4:45 4:65	2°58 3°40 8°4	34124 34122 27130	20 23 23
	Chumpurun	Motibari isetuah teopaigungo Sewan Chuprah	2 65 1 '80 0 '86 2 '84 1 '01	0°82 0°09 0°04	0145 0165 0186	0°48 0°27	0.17 0.38	0:39	0.04	5 7 3 2	4'07 8'00 1'51 2'38 1 01	8'94 4'01 4'60 8 55 2'00	8:30 8:24 2:42 8:37 8:39	23°79 23°67 21°23 25°28 80°95	24 24 24 29
OUTH BERTAR	Shahahad	Buzar Debree	0.08	2.00	1'87	*****	*****	*****	*****	8	3:33	4.19	8199	25-96	30
		Sunsorell	*****	0.13		0.008	*****		770.04	NII 1	0.08 0.13 0.13	1°25 2°62 2°93	4'78 4'61 8'01	18:41 19:98 22:63	28-5 28-5 28.2
	Gya	tiyu tiyu \owndah Jowndah	0.84 0.17 1.21	Ø.01	0 06 0'22	******	*****	*****	*****	3 3	0184 6129 1193 N H	2.64 4.16 3.98 3.98	4'65 4'27 8'76 4'18	25°63 34°33 27°67 33°41	23 23 23 24
	Pates	i'minm Dinapore Behar Barili	0°14 0°08 0°80	0188 0180 0183	0°83 0°17 1°65	0.02	0157	*****	*****	5 2 3 3	1'47 1'00 0'48 2'85	3 48 3 10 2 10 7 68	8'56 8'25 5 37 3'61	37'6' 26 HO 5 H30 33'61	25 27 27 28
all	Monghyr	Begonsern	9188 9195 1150	0.88	0.67	0.45 0.48 1.09	48****		******	3 3	2:42 1:73 2:85	4'87 2'79 4'97	3134 4136 4136	36'78 21 13 26'06	21 20 20
75	South Bhagul- pero,	Bhagulpore Banka	0.31	1.28	4°18 0°78	0'16	0188	*****	******	4	8.05 8.05	9°11 5°72	3189 4175	88.48 21.70	23
=	Southal Por- gunualis.	Ra)mehal tionen Pukter Nya Doomka Desgi ur	0.88	0°64 2°2 1°30 1°10 1°69	0°16 0°20 0°12 1°42 0°10	0.04 0.55 0.57 0.51 0.03	0140 018 018 0109	- 0°01	0.18	4 3 4 7 8	0°87 2°64 2°44 3°96 3°11	1°21 4°03 3°41 4°09 4°08	8119 5111 2127 5183 6171	18/83 22 74 85/97 83/98 83/21	29 21. 27 30 15
PORC.	Ramuribagh	lamitura Pachumba Hazaritugh Somtexurb Alabut Hilla	0.10 1.80 0.10	0°78 3°10 0°12 0°14	0°83 1°50 0°55 0°00	0,10	0.00	0.40	100 101	6 5	4.80 2 10 2 10 3 07	2.14 2.14 2.69 2.04	8'99 4'31 6'74 4'93 5'94	20°64 25°64 33°60	30. 30. 32.
	Lohardugga	danchi Falau.ow	1.01	0'70	1:41	0105	0'07	180119	0.12		2:64 2:06	7-21 5-32	6'04	43.55	29
	Bingbhoom	Chyebassa Furnita Gobintporo	0.99	0°54 1°18 0°68	8:86 1:98 0:01	0'08	0.03	0.04	0.02	5 3 5	3198 3170 3111	9'61 10'02 6'37	0°28 5°33 8 67	35'08 61'73 26'16	31: 31: 27

Explanation Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are left owns.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 10th AUGUST 1883.

The meteorological history of the past week has been more or less uneventful, as the weather has been to a certain extent fairly normal in character in Bengal. There have been no cyclonic vortices generated at the head of the Bay, as had been the case in each previous week since the commencement of the monsoon rains, and thus there have not during the past week been the well marked and almost sudden changes of meteorological conditions, together with the heavy inrushes of moist winds over the land area, especially over the southern and western portions of the Province, which have been so characteristic of most of the earlier weeks of this monsoon. The variations then in the conditions for the week have resulted almost wholly from the variations in the effects, probably both simple and combined, of the two great monsoon currents, the more important are derived from the Bay of Bengal, and the other from the Arabian Sea. During normal monsoon weather in July in Bengal, it is probable that the effect of the Arabian Sea current is felt in the western districts of Chutia Nagpur as a more or less westerly wind, but that its effect cannot be distinctly traced even in the easterly parts of this division in ordinary years, while the Bay of Bengal current, as a southerly and even in some cases a south-easterly wind, supplies the greater part of the moist winds which give general rain over the whole of the Province of Bengal. As has been pointed out in previous reports, however, the two branches of the monsoon currents moving in different directions must, over the area where they meet, produce a certain amount of ascensional movement of the air, and thus cause precipitation of rain more or less heavy in amount.

At the close of the last weekly report, it was shown that the two branches of the monsoon current were more or less normal in character and force, and this state of affairs continued on the 4th instant. On the following day, however, the Bombay branch of the current increased in strength, and westerly winds prevailed in Chutia Nagpur and South Behar. With the advance of the westerly winds the Pay of Bengal current appeared to be forced towards Eastern and Northern Bengal, and the result of the combination of this effect with the intermingling of the two currents was to produce heavy and very general rain over the whole Province. The westerly winds over the greater part of the Province, and the heavy general rain continued on the 6th; and on the 7th, with the gradual retreat of this westerly current, the rainfall over the southern and central districts decreased, though in East and North Bengal the Bengal current was continuing to give a considerable amount of rain. At this time there was a very rapid increase of pressure, especially in North Behar; the winds began to fall off in velocity, and on the 8th instant a more or less pronounced break in the rains was established, which was distinctly marked in Behar and in Chutia Nagpur. The break in the rains continued on the 9th instant, and extended to a part of Central and South-West Bengal, though in Eastern and Northern Bengal rain still continued to fall. On the 9th

instant the barometer commenced to fall rapidly, and on the 10th wind velocities were increasing, and the area of rainfall enlarging, though it had not extended fully to Behar and Chutia Nagpur. At the close of the week, the Bay of Bengal monsoon current still appeared to be somewhat weak, while from the strong westerly winds which prevailed in Behar and hutia Nagpur, it would appear that the Bombay monsoon current was still affecting these districts somewhat strongly. At the close of the week also the tendency of the winds over Bengal was to set up a cyclonic circulation.

Pressure has been almost continuously above the normal throughout the week. The average excess has varied from 0.072" at Calcutta to .001," or practically a normal pressure at Purneah. In the middle of the week at North Behar (Durbhanga) the pressure was nearly two-tenths above the normal. Temperature on the whole has been nearly normal, though if anything a little in defect. It has of course varied somewhat from day to day, but until the close of the week the variations were more or less alternating. With the establishment, however, of the break in the rains above referred to, temperature rose somewhat rapidly, and in Behar and South-West Bengal, particularly at the close of the week, temperature was above the normal by amounts varying from 5° down to about 2°. Patna has again registered the maximum temperature of the week (96°), and this station has reported the maximum daily temperature almost continuously every day. Westerly winds have again teen a strongly pronounced feature in the wind directions of Behar, Chutia Nagpur, Orissa, and South-West Bengal, and, as pointed out above, they have materially influenced the meteorology and rainfall of the week.

The following table gives a summary of the temperature and rainfall data for the seven meteorological divisions of the Province:—

			TEMP	TAKE	7RE						RAIN	FALL,				
	g avek.	week.	Avera	ge far	week.	above or	C	Weel	c.	Re	iny da	ys.	Since of m		Since 15	May
METROPOLOGICAL DISTRICT,	Highest observed during	Lowest chaered during	Of highest of each day.	of lowest of each day.	Of mean for each day.	Average mean of week below normal menn we	Average.	Normal average.	Variation.	Average Bumber in week.	Norreal average num-	Variation.	Average.	Normal average.	Annego	Normal average.
th-West Bengal th-West Bengal ath Bengal	98'5	76°1 78°6 64°8 78°0 74°8 72°0 68°4	88°8 8°7 80'3 87'4 87'8 88'8	78°µ 78°₽ 78°0 77°1 79°2 78°0 78°1	83'6 83'8 81'7 82'3 83'8 61'7 77'6	-0.9 -0.9 -1.1 -0.9 -1.1	8:01 8:75 8:42 5:11 2:91 1:47 8:40	2 00 5'12 3'40 1'40 2'40 2'40 2'67	+0°11 -0°37 +1°83 +5°25 +0°86 -1°0 -0°47	4.2 3.6 6.0 6.2 4.2 3.0	4'0 4'4 5'0 4'1 8 4 5'6 4'1	-0.0 +1.9 +1.9 +0.3 -0.8	4 43 7 10 8 50 4 00	4'61 4'46 5' 6 3'74 3 58 4'95 5'29	35 18 35 166 43 144 40 33 32 37 27 124 31 104	27 9 29 9 67 1 64 1 24 6 25 1 20 1

The rainfall for the past week has been over the whole area of the province about equal in quantity to that of the previous week, but the distribution has been very different. While in the previous week, Orissa, East Bengal, and North Bengal were receiving a rainfall below the normal, in the past week the same divisions have received an excess fall. Again, in the previous week South-West Bengal, North and South Behar and Chutia Nagpur received an excess fall, while during the past week all these divisions, except North Behar, were in defect. The two weeks have therefore been more or less compensatory in their effects. Taking the whole area into consideration, the rainfall has been above the average, for while the excess valuable in some areas has been large the defect has in all and the consideration. effects. Taking the whole area into consideration, the rainfall has been above the average, for while the excess rainfall in some areas has been large, the defect has in all cases been comparatively small.

The past week has been principally notable from the excess in rain received in Northern

Bengal, for the excess amount over the normal fall in this district has been 184 per cent.; that is, Northern Bengal has received nearly three times its usual amount within the week. The excess in this division is principally in the districts of Rungpore, Julpigoree and

Darjeeling.

The case of Rungpore is specially noticeable, for this station and the surrounding districts have been for the whole of the monsoon season up to the present week receiving a rainfall far in defect of the normal, the amount recorded being generally about one-third to one-fourth of the average for the period. The rainfall for this week in the Rungpore district has, however, been between three and four times the average amount, while in the Julpigoree district it has been more than five times the normal. The other divisions do not show so large an excess, Eastern Bengal following next with an excess amount of 50 per cent.; in this an excess, Eastern Bengal following next with an excess amount of 50 per cent.; in this division the princip I excess was received in Chittagong, Chittagong Hill Tracts, Noakhally, and Mymensingh. Mymensingh again was a district which during the pa-t month received deficient rainfall. Orissa and North Behar received a slight excess fall varying from 4 to 2 per cent., but the distribution was fairly general. South Behar reports a rainfall 35 per cent in defect, the defect being strikingly noticeable in Shahabad and Gya. In Chutia Nagpur and South-West Bengal there has been a deficient rainfall by about 12 or 13 per cent, of the normal, and in the former division the fall has been very irregular. Thus though the whole division on the average is in defect. Raneegunge and Berhampore districts have received a distinct excess. The Raneegunge district has in fact been a centre of heavy rainfall for some mouths past. In all divisions, even in those which have received deficient rainfall, the number of rainy days has been about equal to the average for the week, while in those districts which have received excessive rainfall the rainy days were week, while in those districts which have received excessive rainfall the rainy days were above the normal. The whole Province has on the average received rain in 4.5 days during the past week.

The rainfall of the past week has brought up the averages of those districts which were previously deficient very considerably, and all the districts except East Bengal and North Bengal have received a rainfall during the present monsoon, i.e., since 15th May, in excess of the average. Even in these two divisions the defect is comparatively small, amounting to

of the average. Even in these two divisions the defect is comparatively small, amounting to not more than about 7 per cent. of the normal fall.

Saturday, 4th August.—Pressure gave way slightly over the whole of the Province, excepting in South Behar and Chutia Nagpur. The changes were everywhere small, and did not alter the distribution of pressure, which varied from the normal by amounts ranging from 04" in excess at Dacca to '03" in defect at Burdwan and Jessore. Temperature continued to increase, and was above the average in Orissa and Bengal, but below it in Behar and Chutia Nagpur. The variations from the normal were, however, small. Patna registered a maximum temperature of 96.0. The winds were slightly weaker. They were unchanged in direction, except at Gya and Hazaribagh, where they shifted from east to west and north-north-west, respectively. No change of importance occurred in the humidity. Sky was lightly clouded in Orissa and South-West Bengal. It was overcast the humidity. Sky was lightly clouded in Orissa and South-West Bengal. It was overcast in East Bengal, and thickly clouded or overcast at the majority of the stations in Behar and North Bengal. Light general rain fell over almost the whole Province; the rainfall was less general in Orissa, South-West Bengal, and in South Behar. The heaviest rainfalls occurred in Northern Bengal and in the Chumparun district. Mickligunge, in the Cooch Behar district, reported 5.0 inches, while Motihari, Sewan, Julpigoree and Bishen-pore (in the Bankoora district) received amounts varying from 2 to 3 inches.

Sunday, 5th August.—Pressure decreased at the great majority of stations. The decrease was greatest in North Behar and in North Bengal, especially along the foot of the hills, where it amounted in some cases, as at Julpigoree, to nearly a tenth of an inch. Pressure was now below the normal in Eastern Bengal and in South Behar, being nearly ·06" in defect at Jessore, '04" in defect at Dacca and '03" in defect at Patna. Temperature generally diminished, especially in Orissa and in the south-westerly districts of South Bengal. Elsewhere the changes were small, and temperature was still rather above the average at the majority of stations. Winds slightly diminished in intensity. They became strongly westerly in direction in South Behar and in Chutia Nagpur, and in other localities they also shifted round more towards the west. The air became much damper, and was at most stations abnormally moist, especially in North and East Bengal. The sky was heavily clouded in most divisions, particularly in North and East Bengal and in North Behar. Heavy and very general rainfall was reported from almost all districts. It was least general in some of the districts of South-West Bengal, but heavy local rainfalls were reported over this area. Rainfalls of over five inches were reported from Kandi (Moorshedabad reported over this area. Rainfalls of over five inches were reported from Kandi (Moorshedabad

Monday, 6th August .- Pressure increased rapidly in all parts of the Province. rise of the barometer was greatest in the western divisions and least in Eastern Bengal. At several stations the rise exceeded a tenth of an inch, so that pressure was generally above the average. Pressure was '094 inches in excess at Durbhanga, and at the stations in Orissa, Chutia Nagpur, South-West Bengal, and South Behar, it was on the average about '05" in excess of the normal. Temperature had not varied much, but remained somewhat above the average at most stations. Temperature fell leveller at the stations of the normal temperature fell leveller at the stations. what above the average at most stations. Temperature fell locally at a few stations in consequence of heavy rain. Westerly winds had again extended over a greater part of the Province, and embraced Chutia Nagpur, Orissa, South Behar, and South-West Bengal. Southerly winds still continued in East Bengal, but in North Bengal and North Behar. they were variable. The wind velocities were in all cases very small. Humidity continued very high in all divisions, except South Behar. In North Bengal and North Behar the air was practically saturated with moisture. The sky was almost completely overcast in all divisions, except South Behar. General rain, moderate to heavy in amount, fell over the whole Province. The rainfall was heaviest in some of the districts in Northern Bengal, and which it should be noticed had previously been centres of much diminished rainfall. Rung-pore in the two days, 5th and 6th instant, received 7.31 inches, while in the previous month it was at least seven inches in defect. Rainfalls in excess of five inches were to-day reported at the following stations:—Noakholly, Rungpore, Cooch Behar, Matabhanga, Buxa, and Bhagulpore.

Twosday, 7th August. - Pressure increased very rapidly over all parts of the Province. In some cases, as at Purneah, the increase was reported to be nearly two-tenths of an inch. The increase of pressure was somewhat irregularly distributed, but on the whole it was largest in Northern Bengal and in North and South Behar. Pressure was uniformly above the normal for the day by amounts which varied from 0.175" at Durbhanga to 0.083" at Dacea. Temperature was still rather above the normal for the day at the stations and in Chutia Nagpur. Westerly winds still remained more or less persistent, especially in North and South Behar, and in North Bengal. In South-West Bengal and Orissa, winds became rather more southerly again. Wind velocities had again diminished, and feeble winds were now blowing over the whole Province. The air had become very much in Orissa and South West Bengal, but it was below the average in North Bengal, in Behar drier, and humidity was now distinctly below the average for the time of year. Cloud proportions had also diminished generally, especially in North Bengal, and North and South Behar. Rainfall in South-West Bengal almost ceased on this day; elsewhere as a rule light showers only were reported. The largest amounts were still falling in North and East Bengal Chittagong received 39 inches, and Sitamarhi (Durbhanga) 2.5 inches, but

there were only a few rainfalls of more than one inch reported.

Wednesday, 8th August. - Pressure commenced to fall over the northern divisions of the Province, but scarcely altered in the eastern and southern divisions. The fall was greatest in Behar, where it amounted to about five-hundredths of an inch. Pressure was, however, still above the average for the day by amounts which varied from 0 126" at Calcutta to 0.06" at Gya. Temperature fell over the greater part of the Province, except in Behar, and locally in the southern districts. In South-West Bengal, temperature was still above the average for the day, but elsewhere temperature was lower than the normal. Winds still continued to be strongly westerly over the whole Province, except in Eastern Bengal. westerly set was particularly well-marked in Behar, in Orissa and in Chutia Nagpur. This westerly set of the winds has been a very prominent abnormal characteristic of the present monsoon. Wind velocities continued small, though there was a distinct increase in intensity at most stations since the 7th. Humidity increased somewhat rapidly in Orissa, South-West and East Bengal; but in Behar the air was much drier. Cloud proportion had also increased in South-West Bengal, and over the greater part of Orissa, but in Behar the sky had cleared to such an extent that a large proportion of the stations reported almost cloudless weather. On this date, South-West Bengal began again to receive rain in small amounts, while rainfall continued to decrease in Behar and Chutia Nagpur. The rainfall in some parts of North Bengal was heavy, but in almost all other cases it was light, and did not average more than a few tenths of an inch; at Fenny, in the Noakhally district, an abnormally heavy fall of 6.26 inches was reported. Only a few stations received amounts in excess of one inch.

Thursday, 9th August.—Pressure continued to decrease briskly. The decrease was greatest in the North Behar and North Bengal districts, where it in some instances amounted to more than 0.1". The fall was greatest at Durbhanga. Notwithstanding this rapid full of the barometer, pressure was still above the average for the day at almost all stations. The excess pressure was well marked in South-West Bengal and in Orissa, where it varied from 0.076" at Calcutta to 0.033" at Burdwan. Temperature increased in the southerly and westerly districts, but decreased in North Bengal and in Behar. It was distinctly above the average for the day at most reporting stations, the largest excess amounts being 4° at Durbhanga, and 8° at Patna and Cuttack. Wind directions became a little more southerly than reported on the 8th, but the westerly

set continued to be strongly marked. In Chutia Nagpur, at Hazaribagh, and also at Buxar, a somewhat north-westerly wind was even reported. Wind velocities were decidedly increasing with the falling barometer. In South-West, East and North Bengal the sky remained very clouded; but in Behar the sky was clearing very rapidly. Humidity remained almost unchanged over the clouded area, but where the sky was clearing the air was becoming much drier. This was particularly the case in South Behar.

There was to-day a distinct break in the rains in South Behar and in most districts of North Behar, Chutia Nagpur, and South-West Bengal. The rainfall even in the remaining districts was very irregularly distributed, and seemed to consist principally of local showers which were, however, sometimes large in amount. Rainfall was most general in East and North Bengal. The following stations recorded amounts above four inches:—Cooch Behar, Matabhanga, and Rungamati, while Jaipore (Cuttack), Cox's Bazar, Chittagong, Serajgunge and Mickligunge received amounts between two and four inches.

Friday, 10th August.—Pressure again diminished slightly over the whole Province, with the exception of certain parts of North Bengal. The diminution of pressure was greatest in South Behar, where, at Bhagulpore, it amounted to 0.074". Pressure was now below the average of the day in Behar, but above the average in most of the other districts of the Province. Temperature increased decidedly in South-West Bengal, in Behar and in Chutia Nagpur; elsewhere the variation was small in amount. The temperature was now above the normal in Behar by amounts varing from 5° to 1°, while in South-West Bengal it was above the average by amounts which averaged about 2° to 3°. The winds in Eastern and Northern Bengal had become decidedly more easterly, while in Behar the westerly element has increased. The tendency was therefore towards setting up cyclonic circulation. Wind velocities were in most cases small, but at the southern stations velocities were somewhat increasing. Humidity had increased very rapidly in North Bengal, and less rapidly in East Bengal. Darjeeling reported this morning a perfectly saturated atmosphere. In Behar and Chutia Nagpur humidity was much below the average. In East and North Bengal the sky was almost completely overcast, but in Behar the cloud proportion was very small.

The break in the rains continued over the whole of Behar and also in most of the districts of Chutia Nagpur, of Orissa and of South-West Bengal, all of which were practically rainless on this day. The heaviest rainfall continued to occur in North and East Bengal, and it was particularly heavy along the line of the hills, especially in the Cooch Behar district. In this district Matabhanga reported 10 41 inches, Cooch Behar 9 04 inches, and Mickligunge 4 97 inches. Buxa also registered 7 73 inches, and Cox's Bazar 5 29 inches.

Several statious in these two divisions also received amounts in excess of two inches.

METBOROLOGICAL OFFICE, BENGAL,

ALEXANDER PEDLER, F.C.S.,

The 13th August 1883.

Offg. Meteorological Reporter to the Govt. of India.

MEMORANDA.

The following table exhibits the mortuary statistics of the districts in Bengal for the month of June 1883. The leading features revealed by it are—

1. That the deaths of 83,360 persons were recorded in these districts, being at the rate of 15 per 1,000 of their population amounting to 66,162,926, against 16.32 per 1,000 in the preceding month, and 18.60 per 1,000 in the corresponding month of 1882.

2. That the highest death-rates were reported to have occurred in the following districts:

districts :-

						3	Ratio per mille.
Julpaiguri	9 0 0					1.6.1	81/82
Shahabad		* * *	104		0.0 4	0.0 +	29.78
Darjiling					* * *	* *	54.00
Gyn	8 8 4		4 0 0		+ + +		23'64
Nuddea	644					100	21:48
Burdwan							21:36
Patna			0.0.5	0.0.4		601	21'00
Durbhanga	***			4 * *	0 0 0		20 76

3. That the total mortality was distributed under the following specific heads of disease, and at the rates per 1,000 of population noted opposite them :-

Cholera		4 6 0	***	***			2.04
Small-pox	* * *	* * *					12
Fever							9.84
Bowel-complain	ints	***	* * *			9.4.1	.60
Injury					* * *	***	*48
Other causes		***	4 9 4	4.6.5			1.68

4. That while small-pox and bowel complaints prevailed with only normal severity generally, cholera and fever exhibited great activity in the following districts:—

CL	olora.				Faver.		
C/A	O 6 (7) - 68 .		Ratio		Laver.		Ratio
		p	er mille.	FD 1		1	per mille.
Julpaiguri			17:64	Burdwan			17.52
Shahabad	0 4 1		12.72	Nuddon			17:18
Darjiling	4 > 4	4.0.1	11 88	bhaguipore	0.44		15.72
Gya	* * *		8:28	Rajshahyo	* * *	111	15 12
Durbhanga			7:44				
Mazuffarnara			5.28				

That the death-rates under the heads of Sex, Class and Age stood as follows:-

According	to Sex.	According to	Chass.	According to	Age.
Males Females	Ratio per millo. 16 92 13 20	Christians Hindus Mahomedans Budhists Other classes	Ratio per mille 12*(0) 15 96 13*32 11*40 14*64	Under 1 year 1 and under 5 years 5 and under 10 10 and under 20 20 and under 30 30 and under 40 40 and under 50 50 and under 60 60 years and upwards	6.40 7.44 10.92 11.76 12.72 15.84 21.48

F. W. A. DEFABECK,

Offg. Sanitary Commissioner for Bengal.

The 13th August 1883.

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MEMORANDA.

THE following table exhibits the vital statistics of the first class Municipalities in Bengal for the week ending 28th July 1883. The following summary has been deduced from this table:—

from this table:—

(1) That births and deaths were registered in these Municipalities at the rates, respectively, of 22.9 and 31.1 per 1,000 of population, against 18.3 and 28.4 per 1,000, respectively, in the preceding week ending 21st July, indicating a considerable advance in the registration of both births and deaths.

(2) That the following Municipalities returned the highest proportions of births and

deaths :-

	Births.			Death	18.		
		8	nille.			1	Ratio per milie.
Gya			94.3	Gya			88.1
Hughli			32.2	Poori	0 0		47.1
Poori			32.1	Monghyr			41.6
Bhagulpore		• •	29 9	Bhagulpore			38.0
Chittagong			25.8	Patna			36.7
Serampore			25.5	Midnapore			35.6
Durbhanga			25.2	Santipore			34.5
-				Burdwan			33.6
				Arrah	h- 40		33.5
				Ranaghat			29.9
				Suburbs of Ca	aloutta		29.6
				Mozufferpore			28.0
				Hughli		1.0	26.9

(3) That the rates at which the several death-causes proved fatal, in comparison with the rates of the preceding week, were :—

				Ratio per m weeks	ille during the
Cholera			 	28th July. 5.0	21st July. 5.6
Small-pox			 	•4	.3
Fever	• •	• •	 4 4	13.1	11.4
Bowel-compla	ints	• •	 	5.0	4.3
Injury		0 0	 0 0	•5	.4
Other causes		• •	 	7.1	6.4

shewing that, with a decrease in the mortality from cholera, there was an increase in the fatal results from all the other diseases.

(4) That cholera and fever were noticeably fatal in the following Municipalities :-

Cholera.			Fover.		
	Ratio pe	er.			Ratio per mille.
Gya	36 2	Santipore			32.3
Gya Poori	17.1	Gya			28.0
Midnapore	17.0			0 0	24.4
Monghyr	12.7				
Arrah	8.4				
Hughli	6.7				
Mozufferpore	4.9				

(5) That the death-rates under the heads of Sex, Class, and Age stood as follows: -

According to	1562°.	Accoraing	10 0	mas.	According to Ag	/e.	
	Ratio per mille.			Ratio per mille.		B	atio par milio.
Males	31.9	Christians		28.3	Under 1 year		266.6
Females	30.2	Hindus		32.6	1 and under 5 years		47.7
		Mahomedans		28.0	5 and under 10 years		26.1
	1				10 and under 15 ,,		23.0
Merchania Company	A CONTRACTOR OF THE PROPERTY O				15 and under 20 ,,		20.9
Helitylesoli	3			1	20 and under 30 ,		20.8
	1				30 and under 40 ,,		15.8
					40 and under 50 ,,		23.5
					50 and under 60 ,,		25.4
	100 mm			Car Desperato Character	60 years and upwards		53.1

F. W. A. DEFABECK,

Officialing Sanitary Commissioner for Bengal.

The 13th August 1888.

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Results of the Meteorological Observations taken at the Alipore Observatory from 5th to 11th August 1883.

			bright	burometre	T	*MPERA	TURE		H	товож	RINT		Wind			
, onth	Date	Maximom in enn.	Number of hours of	Mean pressure baronat 32 Kahr.	Mean	Maximum.	Range.	Ninimum.	Mean wet bulb.	Vapour ten-ion.	Dew point	Humidity	Prevailing direction	Miles recorded	Main.	Wrather.
888		e		Incho.	-	-	-	0	÷	luquer	<u>6</u>	°/_			Inches	
lug.	5th	165-9	8	29 515	84-8	88-0	8.8	79.7	80.2	0.088	78-9	83	W and SW by 8	160	0.12	Cloudy, o, p.
60	6th	1087	Nil	-631	81.3	86.1	59	79.2	749	967	78:2	90	NW by W and NW	88	0 18	Cloudy, o, g. p.
*	7th	146 5	2	*683	829	88.2	9.1	79.4	79.7	'977	78 5	88	WNN and SW by W	101	1:87	Cloudy, o, g, d,
24	8th	141 3	Nil	.075	820	85 6	7.9	:7.7	79.1	.988	77 9	88	SW by W and SW	128	0.01	Cloudy, o, g,
19	9th	154'0	8	.613	84.9	89 7	98	79.9	8.08	1.008	79:4	85	SW by W and SSW	168	Nil	Chiefly cloudy,
90	10th	153 7	2	.621	84 1	88 7	9.9	80-2	80.9	0 995	79-1	85	WaW, aW by W and S by W	183		Cloudy, o, Ir.
	11th	150'3	б	*648	62 6	88-1	8.4	79-7	79.6	-969	78 8	87	N, W by S and NNW	84	0.80	Cloudy, o, g, d
	The :	averag	e pre	ure of essure of er of he	f the	corre	spond				24 ye	ars.	S G Office			29.626 29.588
							9			the s	even	day				20
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	Tie	avera	ze ter	erature nperatu	re of	the co	en de	iys pondi	ng pe	riod f	or 24	· ye	ars, S. G Office			20
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and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers All the thermometers are varified and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No 86 formerly at the Surveyor-General's Office

The hygrometic elements are obtained from Tables III, IV and V of the official tables computed in the Meteorological Office, and based on Regnaults modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, p passing temporary showers, g gloomy, d drizzling rain, lr lightning reflection, t thunder.

ALEXANDER PEDLER,

METROROLOGICAL OFFICE. INDIA, The 13th duguet 1888.

For Meteorological Reporter to the Government of India.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of July 1883.

				Inches.	Date.	hour
T	he mean pressure of the month			29.509		
	he average pressure of 24 years			29.587		
	he highest pressure during the month			29-697	TEAL	501
	he lowest pressure during the month		104		15th	10h.
	he range of pressure during the month	***		29.325	26th	16h.
	ne tenke or bressure agring one month	* 0 *		0.372		
T	he total number of hours of bright sunshine du	ring the m	onth	Hours, 187		
	B	8 111 1	02002	207		
				0		
T	he mean temperature during the month	***		82.8		
	he average temperature of 24 years			88.5		
	he highest temperature during the month			92.5	11th	
	he lowest temperature during the month			74.9		
	he range of temperature during the month				18th	
	he mean daily range of temperature during the			17.6		
	the greatest range of temperature in one d		43.	96		
A		say during	the	140		
	month			14.8	lith	
				Per cent.		
T	he man humidity during the musth					
	he mean humidity during the mouth		* 0 4	87		
. F.	he average humidity of 24 years	* 0 0	000	85		
				Inches.		
T	he mean vapour tension during the month			0.972		
	he average vapour tension of 9 years		• • • •	1.002		
	he mean cloud proportion of the month			8.76		
	he total rainfall of the month		1 0 1	16.16		
-		95 11 1	self-	20 10		
	registering rain-gauge (mouth of the gauge			15-11		
rgs.	he average fall of 48 years	00 0 1666 11.	0 /			•
	he greatest fall in 24 hours	***		12.84	4.1	
	He Kickees isti to at nouse			2.16	4th	
				Days.		
T	he number of rainy days in the month	0.00		27		
T	he average number of rainy days of 24 years			25		
				0		
emah t				o o		
T	he mean maximum equilibrium temperature of	soler, radil	rrigh			
	of the month	4 0 9	* * 4	146.1		
	he mean difference of sun and air temperatures			58.0		
T	he greatest sun temperature			156.4	lat	
T	he greatest excess of sun over air temperature			67.8	lst	
T	he mean temperature of nocturnal radiation	thermom	eter			
	on woollen cloth			76.0		
T	he mean depression of nocturnal radiation	thermom	eter			
	below the minimum of air			2.5		
T	he greatest depression of nocturnal radiation	thermom	eter		•	
	below the minimum of air	* 0 4	100	4.4	17th	
photo:				Miles.		
T	he mean movement of the wind per day		0.00	184.1	-	
T	he greatest movement of the wind in one day	• • •		283.0	7th	
T	he greatest movement of the wind in one hour	* * *		18.0	7th	to 10 A.M., noon to 1 P.M., 4 to
and the same of	the state of the O-sint					8 P.M.
I.	he number of hours under each of the 8 points					

N. 10, NE. 21, E. 74, SE. 129, S. 158, SW. 280, W. 68, NW. 25, Calm 29.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet bigher at Alipore, and, other things being equal, reads therefore 003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.6° greater; and finally, the thermometer, which has furnished the record of temperature at the Surveyor-General's Office during the last 20 years and upwards, is found to read 0.6° higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

METEOROLOGICAL OFFICE, INDIA, The 9th August 1883. ALEXANDER PROLER,
For Meteorological Reporter to the Goot. of India.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 5th to 11th August 1883.

		1		Тимина	ATURE.	4		Нусвом	MTRY.		1317
MONTE.		Date.	Mean.	Maxicom.	Range.	Minimum.	Mesa wet bails.	Vapour tensiou.	Dew point.	Humidity.	Kein
1883.			0	0	0	0	0	Inches.	0	%	Inche
August	200 200 200 200 200	6th 6th 7th 8th 9th 10th	83.7 81.1 83.8 81.1 83.9 83.9 82.4	90.8 86.8 90.2 88.8 91.3	10.0 7.0 10.4 9.8 11.2 9.8 11.7	79.6 79.8 78.5 80.0 80.4 79.6	79 9 79 8 80 6 79 2 80 7 61 0 80 3	971 978 1 009 974 1 006 1 020 1 002	76·3 76·6 70·3 78·4 79·4 79·8 79·3	84 92 86 91 86 87 90	0°1 0°1 Nil 1°8 Nil

		0
		82.8
	***	12.8
***	101	91.3
		0/0
	***	88
		Inches
**	***	2.19

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

Metrorological Office, India.

The 13th August 1883.

ALEXANDER PEDLER,

For Meteorological Reporter to the Govt. of India.

Abstract of the results of the Thermometric Observations taken at the Meteorologica Office, Chowringhee, in the month of July 1883.

				9	
The mean temperature during the mont	h		***	82.4	Date.
The highest temperature during the mor	nth	***	***	92.8	11th
The lowest temperature during the mon-	th	***	***	75.7	18th
The range of temperature during the m	onth	***	***	16.6	
The mean daily range of temperature du	ring the mo	onth	***	9.7	
The greatest range of temperature in one day during the month				12.5	10th
				0/0	- A Cons
The mean humidity during the month			***	89	
				Inches	Name of Street
The mean vapour tension during the m	onth		***	.986	10-91-09
The total rainfall of the month	***	***	***	15.97	
The greatest fall in 24 hours	***		***	3 12	4th
				Days.	
The number of rainy days in the month	The same and		-	25	

ALEXANDER PEDLER,
For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA, The 9th August 1883.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing the total amount of traffic and tolls on the Circular and Eastern Canals and Nuddea Rivers for the month of May 1883.

(CIRCULAR CANAL.)

Number	NATURE OF CARGO.	APPROXI	MATE	TONNAGE OF	BOATS.	10.43	8
boats.	Tanadas de Calado.	Weight of cargo.	Value of cargo,	Maunds.	Tons.	Tollage.	
	LOCAL TRAFFIC	Mds.	Rs.		1		
	(PRIVATE).	Marie Constitution	Lus.		1	Rs. A.	
115	Coal	90,000	20,000	1,30,725	4,669	557 9	
1	Ghooting	800	400	1,200	43		
3	Roadstone	6,000	1,500	10,500	375	4 8 91 14	
6	Limestone	3,000	750	4,575	163	17 2	
9	Bricks	4,000	400	6,475	231	56 10	
7	Earthenware	900	300	1,950	70	7 5	
10	Sand	3,000	700	4,350	155	29 11	
37	Lime	28,500	27,500	53,750	1,920	470 5	
387	Firewood	1,70,000	81,000	3,26,075	11,645	2,445 9	
2	Iron	900	225	1,850	66	16 3	
118	Jute	81,000	1,63,000	1,64,000	5,857	1,424 8	
7	Mats	1,600	4,800	3,275	* 117	28 10	
3	Paddy	600	450	1,050	37	9 3	
402	Rice	1,60,000	3,20,000	3,13,100	11,182	2,739 10	
2	Wheat	8,000	20,000	1,650	59	14 7	
92	Gram	40,000	1,00,000	70,925	2,533	620 9	
55	Linseed	24,000	72,000	43,200	1,543	378 0	
19	Mustard-seed	5,400	21,000	10,350	369	90 9	
105	Other oils	400	2,000	925	33	8 1	
195 11	Fruits	12,000	12,000	23,050	823	201 11	
4	Vegetables	800	850	1,525	54	13 5	
13	Tobacco	1,600	8,000	3,300	118	28 14	
1	Spices	1,900	3,800	3,775	135	33 0	
79	Cocoanut	10	6	75	3	0 10	
11	Grass for cattle	3,000	1,500	6,500	232	56 14	
29	Do. for thatching	7,000	4,000	13,750	491	120 5	
96	Straw	5,000	2,500	10,950	391	95 13	
68	Betel-nuts	25,000	2,50,000	50,425	1,801	441 3	,
30	Sugar, unrefined	14,000	1,40,000	28,300	1,011	247 10	
154	Jaggery	9,400	19,600	19,975	714	170 10	
7	Salt	58,700	1,17,000	1,19,250	4,259	936 9	
9	Bones	200	50,000	475	17	4 2	
2	Day Coh	700	350	1,400	50	9 8	
,986	and the second s	300	1,500	625	22	5 7	
,546	Total	7,67,710	14,47,131	14,33,300	51,188	11,376 4	
,010	Total of same month last year.	5,13,611	8,91,018	10,78,900	38,532	9,038 12	
,913	Miscellaneous. Passenger, empty, tiles, &c., shell, fish, planks, tamarind, rags, onion, golpatta, betel-leaves,	2,90,000	11,15,000	8,15,925	29,141	5,596 0	
0.0	- bamboos, rafts, &c.		1-1-1			100	
843	Boats under 25 maunds		******			210 12	
	Demurrage	******	******	******		233 12	
diam'r	Return trip	******				38 13	
2,756	Total	2,90,000	11,15,000	8,15,925	29,141	6,079 5	_
3,144	Total of same month						ú
7111	Total of same month last year.	72,700	1,85,300	1,82,075	6,502	1,702 5	
1,742	Grand total	10,57,710	25,62,131	22,49,225	80,329	17,455 10	
4,690	Grand total of same	5,86,311	10,76,318	12,60,975			7
STATE OF STREET	month last year.		20,0010	12,00,040	45,034	10,741 1	

MEMORANDU	M.	market and	-	Rs.	A	P.
Unrecovered balance on the lat of the month Amount of tollage for the month	(464	***	717	851 17,455	10 10	0
Amount credited in the accounts for the mouth	***	Total		18,307 17,855		
Balance at the er	ad of th	no month	200	452	1	. 9

TOLLY'S NULLAH.

		APPROXIMATE		TONNAGE OF				
Number of boats.	NATURE OF CARGO.	Weight of cargo.	Value of cargo.	Maunds.	Tons.	Tollage,		
	LOCAL TRAPPIC (PRIVATE).	Mds.	Bs.			Rs. A. 1		
48	Coal	12,705	3,176	30,425	1,086	116 3 (
46	Roadstone	26,475	19,856	51,075	1,824	256 8		
75	Bricks	17,200	5,200	33,175	1,185	129 14		
138	Tiles	12,600	10,100	22,800	814	85 8		
28	Earthenware	2,565	565	4,675	166 293	21 2 30 13		
10	Sand	4,600	400 85	8,225 225	8	0 13		
1	Lime	100 34,300	8,575	19,500	2,481	519 13		
131	Firewood	40	190	75	2	0 10		
1	Iron Brass	200	6,000	550	20	4 13		
2 3	0.44	500	2,500	1,125	41	9 18		
6	Jute	750	2,625	1,575	56	13 12		
1	Mats	75	150	150	5	0 9		
339	Paddy	35,511	35,511	69,800	2,492	603 13		
1,034	Rice	1,36,184	2,75,560	2,55,450	9,123	1,756 14		
34	Gram	9,850	14,675	19,750	705	172 13		
1	Other cereals	50	100	100	3	0 6		
31	Mustard-seed	11,000	33,000	2,00,325	726	85 9		
2	Mustard oil	240	1,540	500	17	4 6		
109	Fruits	7,600	7,000	14,350	512	54 13		
70	Vegetables	9,260	10,800	17,600	629	69 8		
3	Tobacco	600 142	3,000	1,100 250	9	2 8		
10	Cocoanut	2,700	650	5,350	191	38 9		
26	Grass for eattle Do. for thatching	1,000	350	2,150	77	18 13		
127	Qimam	14,178	3,075	27,850	998	160 9		
83	Tanana	15,100	45,300	28,375	1,013	206 0		
101	Salt	32,951	82,402	68,175	2,485	476 4		
2	Dry fish	50	175	200	7	1 12		
2,466	Total	3,88,526	5,72,130	8,84,900	26,952	4,850 13		
3,500	Total of same month last year.	6,19,399	7,29,822	12,84,025	40,584	9,080 15		
1,585	Miscellaneous. Empty, passenger, golpatta, shell, fish, planks, tamarind,	2,38,379	8,38,270	4,77,725	17,061	2,381 12		
	tiles, stonechirah, chaff, brick-dust, babla-bark, &c.		1 5	*				
887	Boats under 25 maunds	*****	*****	******	*****	64 12		
***	Demurrage		*****		*****	84 18		
744	Return trip	******	*****			16 0		
2,222	Total	2,38,379	8,38,270	4,77,725	17,061	2,547 5.		
3,157	Total of same month last year.	65,492	55,465	6,62,150	23,648	3,781 12		
4,060	Grand total	6,26,905	14,10,400	13,62,625	44,018	7,398 2		
	And the second of the second o	6,84,891	7,85,287	18,96,175	64,232	12,862 11		
6,657	Grand total of same month last year.	0,01,001	1,00,201	10,00,110	04,202	10,000 11		

Unrecovered balance on the 1st of the month Amount of tollage for the month			128 7,898			
Amount credited in the accounts for the month	Total	•	7,522 7,394	0	9	
Balance at the end of the	month		128	0	0	

NUDDEA RIVERS.

(I).-Jellinghee River.

		APPROXIS	EATB	TONNAGE OF	BOATS.	7-16-500	
Number of botas,	NATURE OF CARGO.	Weight of careo.	Value of cargo.	Maunds.	Tons.	Tollage.	
		Mds.	Rs.	-1		D.	
	LOCAL TRAEFIC (PRIVATE).	Mus.	230.			Rs. A. P	
7	Coal	1,875	937	3,600	128	18 0	
6	Ghooting	475	118	1,075	38	2 11	
2	Tiles	100	25	375	13	0 7	
1	Gunny (Indian)	150	1,500	350	12	3 8	
19	Jute	4,450	8,900	2,750	312	87 8	
83	Paddy	5,625	5,625	11,650	416	87 6	
89	Rice	7,350	14,700	14,725	525	110 7	
99	Wheat	28,550	57,100	56,650	2,023	424 14	
17	Gram	4,600	6,900	9,100	325	68 4	
31	Other cereals	7,100	14,200	13,375	477	100 5	
3	Linseed	450	1,350	950	33	7 2	
3	Mustard-seed	550	2,750	1,375	49	10 5	
1	Indigo-seed	346	3,460	725	25	5 7	
2	Other oils	165	1,320	550	19	5 8	
1	Oil-cake ···	50	100	125 25	4	1 4	
1	Sugar, refined	10 100	48,300	31,175	1 110	0 4	
77	Salt	16,100 150	1,500	375	1,113	311 12	
1	Hides	775	23,250	1,775	63	3 12	
6	Ghee	110		1,73,200	6.185	17 12	
197 76	Empty Miscellaneous	9,150	73,200	27,550	983	216 8 275 8	
672	Total	88,021	2,65,285	3,57,475	12,756	1,758 8	
672	Total of same month	77,530	2,72,096	3,40,550	12,151	1,527 9	
Wal.	last year.	111111111111111111111111111111111111111	erd of		1	1. 51%	
	MISCELLANEOUS.	100					
405	Passenger boats		******	******		136 8	
34	Rafts of timber 321D ×28½G.		*****	******	*****	125 11	
439	Total			*****	******	262 3	
881	Total of same month last year.		*****			334 3	
1,111	Grand total	88,021	2,65,285	3,57,475	12,756	2,020 12	
1,553	Grand total of same month last year.	77,530	2,72,096	3,40,550	12,151	1,861 13	

MEMORANDUM.

		Rs.	A.	P.
Unrecovered balance on the 1st of the month Amount of tollage for the month		2,020	12	0
Total Amount credited in the accounts for the month		2,020 2,020	12 12	0
Balance at the end of the month	***	***		